The Mining Journal

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 725 .--- Vol. XIX.]

LONDON, SATURDAY, JULY 14, 1849.

PRICE 6D.

IMPORTANT IRON, COPPER, AND TIN-PLATE WORKS.

MESSRS. SHUTTLEWORTH & SONS have been favoured with instructions from trustees, under a mortgage deed, to SELL, BY AUCTION, as the Auction Mart, in London, on Tuessiay, July 17th, at Twelve, the valuable and important establishments of the Governor and Company of Copper litiners in England, in the county of GLAMOBGAN.—The establishment at Cwm Avon is of the most complete and finished observater, and includes every power and erection essential for carrying on. In the most economical manner, and on a large scale, every branch of the IRON, TRE-LATE, and COPPER TRADES.

The leaks under which the property is held include several thousand acres of land, and the county of the complete several thousand acres of land, and the county of the

The COPPER SMELTING-WORKS, which are under one roof, and are capable of metting about 600 tens of ore, equal to 50 tens of refined copper per week, and possess ausail convenience for the supply of water, and the cleap deposit of slag.

The COPPER ROLLING MILL is one of the largest in Wales, with harmors, rolls a statement.

The COPPER ROLLING MILL is one of the largest in Wales, with hammers, rolls&e., attached.

The FIRE BRICK MILL can turn out 100,000 bricks per week. In the centre of the
works is a large enclosed depth for stowage of all goods, and also a line of workshops complote in every respect; with the necessary steam engine, machinery, and tools for the
supply of all kinds of patternmakers', Joiners', swyers', fitters', bodiermakers', smittls',
and founders' work required for so large an establishment. The offices for conducting
the business in the centre of the works are most complete. There is an excellent managar's house short distance from the works, whilst debached, in convenient localities, are
about 1000 neat four-roomed cottages, with sufficient houses of a better class for the respective agents and workmen, shops, and a large equare fitted for the purpose of a market,
and excellent stabling for apwards of 300 horses. The erections, works, and buildings,
with the exception of two of the blast farnaces, are in the parish of Michaelstone, held by
the company for an unexpired term of 90 years, and the control of the population connected with the works is thus beneficially under the manafign director of the works.
The whole of the works are connected by rail or tram roads with the collieries and the
shipping pert, which is distant only two and a half miles, and the South Weiss Railway
passes close to the premises.

The premises may be viewed by application to John Biddulph, Esq., Coed-park House,
adjoining the works, and particulars obtained at the general office of the establishment in
Owm Avon : of Messrs. J. C. and H. Freshfield, solicitors, New Bank-buildings; Messrs.
Tilson, Squance, Clarke, and Morrice, solicitors, Coloman-street, at the Auction Mart;
and of Messrs. Shuttleworth and Sons, 28, Poultry.

Markey Messrs Shuttleworth and Sons, 28, Poultry.**

IN BANKRUPTCY.—TO COALMASTERS, IRONMASTERS, MINE ADVENTURERS, CAPITALISTS, AND OTHERS. IMPORTANT SALE OF COLLIERIES, ENGINER, MACHINERY, AND SHARES IN COLLIERIES AND LEAD MINE.

MR. R. W. JOHNSON will SELL, BY AUCTION, at the Wynnstay Arms Hotel, in WREXHAM, on Thursday, the 9th day of August, at the hour of Five o'clock in the afternoon precisely, by the order of the assignces ames Kyrke, Esq., in the following, or such other lots as shall be decided upon at the and autiject to such conditions as shall be then produced.

LOT I.-PENYCOED COLLIERY,

LOT I.—PENYCOED COLLIERY,
the leasehold state of Mr. Kyrke, in the COLLIERY and the MINES of COAL and
IRONSTONE under 80 acres of land, or thereabout, called the PENYCOED COLLIERY,
situated in the township of BRYMEO, in the parish of WREXHAM, in the county of
DEMBIGH.—And also the PLANT, consisting of a winding stasm-engine, 6-horse power,
incertiplete, rails, weighing machine, and colliery materials, implements and utensils at
Penycoed and Cocdyfelin.

The use of a day level, of about 1000 yards in length, lately driven for draining the
mines, and other privileges, will be afforded to the purchaser.
An inventory and valuation of the plant, use of the level and privileges, will be produced at the sale, and the purchaser of this lot is to take the same at such valuation.
The Mineza branch of the Sirewsbury and Chester Railway passes through this colliery,
and for the sease at the lease a what and a bing have been constructed this collery,
fate operation, and its resources are now fully developed. A spirited purchaser will
possess all the means necessary to carry on an extensive and prottable trade at comparailvely little cost, and no risk.

LOT II .- PLASMAEN COLLIERY (NEAR THE FROOD)

The LEASHOLD ESTATE of Mr. Syrke, in the COLLIERY and MINES of COAL and IRONSTONE, under about 3 acres of land, in the said township of BRYMBO, called the PLASMAEN COLLIERY—also the PLANT, consisting of pits, large pumping engine, pumps, berse gins, and weighing machine and colliery implements, specified in an inventory, which will be produced at the said.

This offliery is situate near to the railway, and fronts a good turnpike-road, leading team Wrexham to Chester. It is comparatively free from water, and the engine is of sufficient power to drain adjoining lands, which might probably be taken upon advantageous terms. It is admirably situated to command a good local saic.

LOT III.-BRYNMALLY COLLIERY.

LOT III.—BRYNMALLY COLLIERY.

All those TWENTY-THREE (96ths) SHARES of Mr. Kyrke in the LEASEHOLD COLLIERY and the MINES and MINERALS under 185 acres of land, or thereabouts, situate in BRYMBO and BROUGHTON, in the parish of WREXHAM, called the BRYNMALLY COLLIERY; and the PLANY, coisisting of pits, very large numping engine, winding eaglist, rails; gins, and colliery implements, all in excellent working condition, and of the best quality, and specified in an inventory, which will be produced at the sale. This capital and well-known collery is distant 3 miles from Wrexham, 10 from the bilipping port of Chester, and 26 from the Birkenhead Docks. A branch of the Shrewsbury and Chester Railway has been brought to the pit's mouth, and by means of railway transit the facilities for the disposal—in distant as well as home markets—of the unlimited quantities of coal which can be raised from the mines, secure to the proprietors large returns for their capital. At present a good local sale is carried on, and there exists other capabilities for considerably extending the operations of the colliery, as well as for the creetion of tronworks. The limestone district of Minera is connected by a branch railway with this colliery. The colliery is approached by excellent roads, which have been constructed at great expense.

ucted at great expenses.
or TWENTY-THREE (96ths) SHARES in this COLLIERY will also be offered at

LOT IV .- STEDDFOD LIMEWORKS

The THIED PART, or SHARE, of Mr. Kyrke in the LEASE of the STEDDFOD LIME BOCKS, QUARRIES, and MINES, in MINERA, in the parish of WREXHAM. There are in opecution three lime kins and lime quarries adjacent thereto, carried on by the Stoddod Lime Company.—Also of the PLANT, consisting of three kins, two cranes, burels, rails, and implements, specified in an inventory, which will be produced at the sale. The kins are attusted near to the terminus of the Minera branch of the Shrowshyr and Chetaer Railway, which might be made available for the carriage of lime to all parts of the country. The inne rocks, extending over a large track of land, are inexhaustable, and the lime is of the best quality.

An extensive trade is carried on by the company.

The WOURTH PART, or SHARE, of Mr. Kyrke in the CRAIGIOG LEAD MINE adventure, in the parish of LLANANNON, with the PLANT theremote belonging, consisting of large paraphag engine, name, castings, norse gins, and other mining implements, an inventory whereof will be produced at the sale.

Mr. John Griffiths, of Glaurafon, Brymbo, will appoint persons to show the lots.

Further information may be obtained upon application to George Morgan, Esq., official assumes, Liverpool; William Rowe, Esq., mineral surveyor, Wrexham, or Mesars, James and Owen, solicitors to the assigness, Wrexham, at whose offices full and detailed particulars, accompanied by maps and plans, may be inspected.

EXTENSIVE IRON-WORKS FOR SALE,
BY PRIVATE BARGAIN,
THE BLAIR IRON-WORKS,

log to the Ayrahire Iron Company, with the whole MINERAL FIELDS held by company, under favourable leases, including the MALLEABLE IRON-WORKS, stately adjoining, so far as exceted—all as particularly described in former advertab.—There is a large STOCK of IRONSTONE on the ground, which may be had mation.

a valuation.

To further particulars apply to Mr. Biggart, at the works; Mr. Watson, 32, and Mr. Wown, 35, 5t. Vincent-place, Glasgow; Messrs, McClelland and Mackensie, accountants ro; Messrs, Gibson-Craig, Dalsiel, and Brodie, W. Sa., Ediburgh; or Messrs, Montanerie and Figming, writers, Glasgow—the last being in presession of the title-deeds.

TAMAR GRANITE QUARRY, AT GUNNIS LAKE, TO TO SMELTERS.—WANTED IMMEDIATELY BE LET.—TO BE LET, by the year, or for a term, as may be agreed on, with immediate possession, all those very superior WHITE GRANITE WORKS, situate at GUNNIS LAKE, in the parish of CALSTOCK, CORNWALL, known by the name of the TAMAR GRANITE QUARRY.

TAMAR GRANITE QUARRY.

These works are extensive and most advantageously situate, both for working and the transit of the produce, being within a quarter of a mile of one of the quays on the navigable River Tamar, where freight can at all times be procured, and have been successfully worked for a considerable period.

The quality of the stone needs no comment, it being generally acknowledged to be unrivalled for its excellence, both for grain and colour.

For terms of letting, application to be made to Mr. J. Richards, brewer, Tavistock, the proprietor; or to Mr. Davis, of the same place, auctioneer.

Tavistock, July 3, 1849.

TALUABLE AND EXTENSIVE MINES OF COAL

ALUABLE AND EXTENSIVE MINES OF COAL AND IRONFTONE.

TO BE LET, ON LEASE, on most advantageous terms, the COAL and IRONSTONE under a very large tract of land, inst advantageous terms, the COAL and IRONSTONE addedining the Strewsbury and Chester Edition. RUABON in the county of DERBIGH, The proprietors of the ESTATES on which the Ponkey and Aberderfyn Iron-Works were formerly carried on, have made arrangements TO LET BOTH PROPERTIES TOGETHER, which will give the essee of them facilities to carry on a lucrative business receiver rarely to be met with.

The COALS and IRONSTONE on these ESTATES may be raised at very much less than an average cost, and the quantity proved in them (besides what are under a very large portion of one of them, in which there is no doubt they will be found) is estimated will supply from works with materials to make 400 tons of pig-from weekly for upwards of 30 years, as well as 50,000 tons of the much and justly-celebrated Yard and Wall and Printed particulars of the property, and lithney appears to the property, and lithney appears to the property and lithney appears to the property.

Bench Coals per annum for sale, for the much and justly-celebrated Yard and Wall and
Printed particulars of the property, and lithographed plans of the estates, showing the
minerals under them, with calculations as to the expense of making iron from them, as
compared with that of manufacturing it in Staffordshire, may be had upon application at
the office of the Mining Journal, 36, Fleet-street; and at J. Boydell's, 54, Threadneedlestreet, London; and at Messrs. Longeville and Williams, solicitors, Oswestry.

Oswestry, June 6, 1949.

STEAM-ENGINES ON SALE.—No. 1.—A SECOND-HAND DOUBLE POWER CONDENSING MARINE ENGINE, with cast-froit framing and side beams; cylinder 22 inches diameter, 3 feet stroke; air-pump, lined with brass—no boller; 47-hors power, with 7 lbs. pressure on the square inch, and very suit-able for pumping and winding in a colliery, lead mine, or to drive any kind of millwork

No. 2.—A DOUBLE POWER CONDENSING MARINE ENGINE, quite new, but unfinished, with cast-iron framing and side beams; cylinder 43 inches diameter, 34 feet offers, 201-horse power, with 7 lbs. pressure on the square inch—no boiler; and suitable for the same purposes as No. 1.

stroke; 91-horse power, with 7 lbs. pressure on the square inch—no boiler; and suitable for the same purposes as No. 1.

No. 3.—A DOUBLE POWER CONDENSING LAND BEAM WINDING ENGINE; cylinder 22 inches diameter. 4% feet stroke; hand gear, with button valves, parallel motion, fly-whoel, waggon boiler, with all its fiftings; door, grate, head-plates, &c.; two large cast-iron bell cranks and pedestals, with strong wrought-iron connecting-rods, for pumping water from two lifts of pumps 100 yards deep, two rope wheels, suited for flat chains, apparatus to throw in and out of gear, pit-head pulleys, &c., 23-horse power, with 7 lbs. pressure on the square inch, and sultable for the same purposes as No. 1.

No. 4.—A NEW DIRECT ACTION ENGINE, double power, suitable for a corn-mill, or winding in a coal or lead mine, with improved spring packing for piston; ditto ditto for nozele valves; cylinder 15 inches diameter, 3½ feet stroke, 23-horse power, with 35 lbs. pressure on the square inch—no boiler.

No. 5.—A DOUBLE POWER EAND BEAM ENGINE; cylinder 20½ inches diameter, 45 feet stroke, slide vaive, parallel motion—no boiler, and quite new; 52-horse power, with 35 lbs. pressure on the square inch, and suitable for the same purposes as No. 1.

No. 6.—A DOUBLE POWER BEAM WINDING ENGINE; cylinder 15½ inches diameter, 3½ feet stroke, with a cast-iron portable frame, slide vaive, hand gear, parallel motion, flat-rope wheel, spur and phision wheels for the same purposes as No. 1.

No. 7.—A SECOND-HAND PUMPING ENGINE, with cylinder 48 inches diameter, 7 feet stroke in the house and the same in the pit, with sir-pump, condenser, hand gear, cistern, &c., pumping three lifts of pumps 100 yards; working barrels 14 inches diameter—no boiler; 100-horse power, with 7 lbs. pressure on the square inch.

No. 8.—A NEW DIRECT ACTING DOUBLE POWER HIGH-PRESSURE STEAM-ENGINE; cylinder 9 linches diameter, 2 feet stroke, silder and fittings compiler, with winding apparatus and p4t-head and pulley, and was lately at a work, for about four months, on a

ower, with 35 lbs. pressure on the square inch.

THREE SECOND-HAND CYLINDRICAL BOILERS, little worse than new, 4j feet lameter, and 33 feet in length, with spherical ends, and now in thorough repair, and attable for any of the above engines.

ONE PAIR 67 90-horse power SECOND-HAND MARINE BOILERS, that have been rorking a pair of 40-horse power engines, and are now in thorough repair.

NEW BOILERS, of any shape, can be MADE at a short notice, to suit any of the bove engines.

FOR further information apply to EYTON & CO., MOSTEN FOUNDRY, NEAR HOLEWELL FLINTSHIPE.

JAMES BOYDELL, LAND, MINE, AND MACHINERY VALUER, AND AGENT,
No. 54, Threadnheadle-Street, London,

A PATENT RIGHT for BUILDING VESSELS with IRON, on a principle which combines increased strength with greater economy of mainfacture.

Also, ONE for the CONSTRUCTION of IRON ROOPS, on a like principle. A speciment of this may be seen as a roof covering one of the retort houses of the Birmingham and Staffordshire Gas Company, by permission of Mr. Clift, the engineer, at the works.

Also, ONE for IRON JOISTS and RAFTERS, and for a plan of joining large plates and these of two

edged tools.

The LEASE of a very celebrated FOUNDRY and ENGINEERING ESTABLISHMENT, on the River Dee, complete, with fixtures, machinery and tools, in working order, and ready for any parties to embark at once on building first-class iron stemm-vessels, and marine and locomotive engines.

The above will be found worthy the attention of any parties desiring to it in a profitable business, as they will be disposed of upon terms which will enusual return to the purchasers of them.

asual return to the purchasers of them.

Also, SOME COAL and IRONSTONE MINES, FREESTONE QUARRY, and a large FREEHOLD ESTATE.

Also, STRAM-ENGINES and MACHINERY, of all descriptions, and which he is enblood to offer at very moderate prices.

Also, SHARES in a well-known valuable SLATE QUARRY, in CARNARYONSHIRE.

Also, SHARES in, or the whole of, a GAS-WORK, which supplies exclusively a populous fown in Shropshire, and which can be greatly extended.

Farticulars of the above may be had, upon application, at 54, Threadneedle-sirect.

TO ENGINEERS, BUILDERS, AND ARCHITECTS.

JAMES BOYDELL, 41 THER ADDREEDLE-STREET, having been a very large manufacturer of machinery and irregular shaped fron, and having accomplished the rolling of some descriptions of the latter, thought by many to have been impracticable, will be happy to ASSIST any ENGINEERS, SHIPBUILDERS, and ARCHITECTS, in the planning of the details of what HONWORK they may have occasion for, or bringing to perfection any invention in machinery, as well as procuring such materials for the purpose as they may require.

to their personal subscription.
Company's Offices, 28, Moorgate-street, City.

Company's Offices, 28, Moorgate-street, City.

GROWAS LATE COMPANY,
6000 parts, or shares, of £5 per part, or share (all paid), whevcof 2300 parts, or shares,
are offered to the public.

NOW IN WORK ON THE "COST. BOOK" PRINCIPLE.

The QUARRY is situated on the CLIFFS, within one mile of the port of Boscustary during three-fourths of the year.

The SLATE forms a remarkable exception to the general constitution of this mineral; and whilst ifs applicability to the several purposes of roofing, flooring, and the usual adaptations of the gree, blue, and other slates, a new series of utilities has been developed to the directors (by a gentleman who has, in consequence, been appointed superintending, engineer to the company), which will extend its applicability of preparation to an extensive and completely novel character of uses.

A PATENT is in course of completion, for the purpose of securing to the sharehelders.

A PATENT is in course of completion, for the purpose of securing to the share in this undertaking the exclusive benefits to be derived from one of the most att discoveries of the present age.

Prospectuses, and all other information, may be obtained at the offices of the cost, Threadneedie-street, where specimens of the share may be seen; or to the significant of the supplete of the cost of the cost, and all other information. Prospectuses can also be had at the the Mining Journal, 26, Fleet-street.

London, May 16, 1849.

SMELTER, to SUPERINTEND the CONSTRUCTION of SILVER-L SMELTING WORKS in SWITZERLAND. He will be required to farnish testimo of his respectability and experience as a smolter and refiner, which will bear the stri investigation.—Address "A. B.," the Bell, Borough Market, London.

A GENTLEMAN, a native of Freyberg, who has been some years in the Royal Saxon Service of Mines, is desirous of meeting an ENGAGE MENT, either in ENGLAND or ABROAD. He has a general knowledge of inlining an identistry, understands assaying in all its branches, and is perfectly acqualated with the amalting and refining of copper, lead, silver, and gold.—Address "G. T.," at the office of the Maining Journal, 26, Fleet-street, London.

O BE SOLD,-BROWN UMBER, OCHRE, and WHITE

TO ENGINEERS AND OTHERS.—WANTED TO PUR-CHASE, upon reasonable terms, a SECOND-HAND HIGH or LOW PRESSURE PUMPING-ENGINE, with or without pumps; the power to be equal to from 30 to 1 horacs.—Apply by letter, to Mr. J. Unwin, 31, Bucklersbury.

INGINE FOR SALE, BY PRIVATE CONTRACT-A 40inch cylinder ENGINE, with boiler, about 10 tons, in excellent condition; it is situated within 2 miles of a sea-port.—Also FOUR HUNDRED TONS of PITWORK, of zarious sizes, and several CAPSTANS, SHEARS, ROPES, and GHAINS.

For further particulars apply to Mr. Henry Burguss, Camborne, Cornwall.

MR. W. D. STARLING is instructed to SELL, by PRIVATE CONTRACT, a QUARTITY of OLD RAILS and CHAIRS; also, several LOTS of CONTRACTORS 'PLANT.—Application to be made at his office, 13, Change-alley, June 14, 1849.

OANS ON DEBENTURES.—The CALEDONIAN RAIL-way COMPANY are prepared to RECEIVE TENDERS OF LOANS, in sums less than £500.—Applications to be made or addressed to this office. 125, George-street, Edinburgh, May 36, 1849. D. RANKINE, Treasural.

MINING PROPERTY.—Mr. JAMES HERRON, MINE AGENT. 33, CLEMENTS-LANE, LOMBARD-STREET, has received instructions to DISFOSE of SHARES in FIRST CLASS MINES, paying regular dividends, and yielding to the purchaser from 174 to 35 per cent. upon his outlay. He is also in a position to transact business in the following—viz.; East Wheal Rose, West Caradon, South Wheal Frances, Great Devon Consols, Wh. Scion, Trelaway, Mary Ann, Bedford, Tamar, H. Imbush, South Tolgus, Condurrow, Troleigh, St. John del Rey, Keswick, Rhympay, Iron, and Couled Mexican Mines.

MR. EVAN HOPKINS, C.E., F.G.S., CONSULTING ENGINEER AND INSPECTOR OF MINES,
May be CONSULTED PAILY (by letters) on all subjects connected with MINING PROPERTY, both Home and Foreign.

BARRINGTON-ROAD, BRIXTON.

MR. C. S. RICHARDSON begs to announce that he has REMOVED his OFFICES from Whiteframs-street, Floet-street, to 15, OLD BROAD STREET, CITY.

JAMES LANE, MINING SHARE DEALER, 80, OLD BROAD-STREET, LONDON. 20

NGLO-MEXICAN MINING ASSOCIATION, 5, Broad-A street-buildings, July 12, 1849.—A SPECIAL GENERAL MEETING of prictors of this association will be HELD at the office of the company, 5, Broad buildings, on Wednesday, the 16th day of August next, at One oclock precise, ALFRED GODFREY, Secr

ONSOLIDATED COPPER MINES OF COBRE ASSO-CIATION.—Notice is hereby given, that the HALF-YEARLY GENERAL MEET-ING of proprietors of this association will be HELD at the office of the company, No. 20, Austinfriars, on Tuesday the 17th July next, at One o'clock precisely.

By order of the court of directors,

26, Austinfriars, June 29, 1849.

WM. LECKIE, Secretary.

COPIAPO MINING COMPANY, 22, Austinfriars, July 13, 1849.—Notice is hereby given, that the HALF-YEARLY MEETING of the shareholders in this company will be HELD at their office, 22, Austinfriars, on Thursday, the 26th inst., at One o'clock precisely. At this meeting two directors, and one auditor, will go out of office by rotation, but, being eligible, will offer themselves for re-election. Notice is further given, that this meeting is made SPECIAL, for the election of a director; any shareholder desirous of becoming a candidate, is requested to give sovandays' previous notice of such fitention in writing to the secretary.

By order of the directors, FRED, GRELLET, Secretary.

CALLINGTON MINES COMPANY.—At a Quarterly General Meeting of shareholders, held on Wednesday, the 4th of July, at the offices of ral Meeting of shareholders, held on Wednesday, the 4th of July, at the offices of the company, 44, Finsbury-square—It was Resolved,—That the reports and accounts, now submitted, be received, adopted, and stored in the company's cost and transfer book.

EWIS MINES COMPANY.—At an Annual General Meeting of shareholders, held on Wednesday, the 4th July, at the offices of the company, 44, Finsbury-square—it was

Resolved,—That the reports and accounts, now submitted, be received, adopted, and ontered in the company's cost and transfer book.

Resolved,—That the thanks of the meeting be presented to the chairman and directors, for their able and saciduous conduct in the management of this company's preparty.

OSTWITHIEL CONSOLS.—At a Meeting of adventurers,

held at the offices, on Thursday, the 12th inst, he held at the offices, on Thursday, the 12th inst, he hadr, Amongst other business—for which see particulars in another column—R was resolved,—That a call be now made of £1 per share on 253 shares, payable in one month, to the bankers of the company, the London and Westminster Bank, Southwark Branch.

TAMAR SILVER-LEAD MINING COMPANY.

Notice is hereby given, that a DIVIDEND of TEN PER CENT, has been declared by the directors upon the paid-up capital of this company, PAYABLE on Wednesday, By 11th proximo, and succeeding Wednesdays, between the hours of Twelve and Four. The corridicates are required to be left at the office five clear days, in order to be examined and marked.—44, Finsbury-require, London, June 21, 1849.

BICKFORD'S PATENT SAFETY FUSE, beg to inform Merchants, and only real, SAFETY FUSE, beg to inform Merchants, all ne Agents, Rallway Contractors, and all persons concerned in Blasting Operations, that, for the purpose of protecting the public in the use of a genuine article, the PATENT SAFETY FUSE has now a thread wrought into its centre, which being patent right, infallibly distinguishes it from all imitations, and ensures the continuity of the gangowder. The Safety Fuse is now protected by a Second Patent, and manufactured by greatly is proved machinery.

BICKFORD, SMITH, & DAVEY, Camborne, Cornway of

STRUVE'S PATENT MINE VENTILATOR. Quantity of air passed through a Mine almost unlimited, to the extent of \$50,000 cut feet per minute, if necessary—depending on size of apparatus.

No injury, to pumps, tubbing, chains, ropes, or pitwork.

Goares kept clear.

Gouves kept clear.

Not influenced by barometrical and thermometrical changes in the atmosphere, or by wind.

Current of air undeviating.

LICENSES will be GRANTED on application to

Mr. WILLIAM PRICE STRUVE, C.E., Swanses.

The ventilator has been erected at the Eaglesbush Colliery, near Neath, and is perfectly efficient, and may be viewed on application to the proprietors, Mesers. Fearness and Evans, Neath.

WIRE ROPE.—The Undersigned beg to inform the public, that they have become SOLE LICENSEES of Mr. ANDREW SMITH, for the MANUFACTURE and SALE of his PATENT WIRE ROPE; and having fitted their premises with his very superior improved machinery, have only to assure those who may favour them with their orders, that the same care and attention shall always be bestowed which, they have reason to believe, has secured them such general support.

LIGHTNING CONDUCTORS, SIGNAL CORD, and SASH LINE, always in stock John Cord of the Cord of the

Patent Wire Rope Works, No. 39, High-street, Wapping, La

MANUFACTURE PATENT LAP-WELDED IRON TUBE COMPANY
MANUFACTURE PATENT LAP-WELDED IRON TUBES (under Mr. R. Proser's
Patent) for Marine, Locomotive, and all Tubular Bollers. Also, TUBES for Clas, Stome,
and other purposes. All sorts of RION GAS FITTINGES.

WORKE-Smethwisk, near Birthingham.
LONDON WARRHOUSE-No. 6, Upper Thambe-street.

SCHOOL OF MINERALOGY, CHEMISTRY, AND

SCHOOL OF MINERALOGY, CHEMISIKI, AND GENERAL SCIENCE.

MESSRS, NESBITS ACADEMY,

No. 38, KENNINGION-LANE, LAMBETH, NEAR LONDON.

In this SCHOOL, in addition to all the branches of a good education, EVERT FACILITY is AFFORDED by obtaining a knowledge of ANALYTICAL CHEMISTRY and NATURAL SCIENCE, as applied to the arts, Manufactures, and Agriculture.

The pupils are practically taught in the Laboratories, which are fitted up with every essential for the most extensive chemical investigations.

Mr. Neabit's works on Land Surveying, Monstration, Gauging, Arithmetic, English Parsing, &c., may be had of all booksellers.

References—Dr. D. B. Beid, F.R.S.E., &c., House of Cammons, Westminstory R. Prosser Esq., C.E., Birmingham; J. L. Bullock, Esq., Editor of Pressive's Chemical Analysis, Conduit-street, Regeni-street; J. Gardner, Esq., M.D., Editor of Liebig's Letters, &c., Mortimer-street, Priland-place; and W. Shaw, Esq., Strand, London.

NEUBER'S SCENTED LIQUID GLUE, being perfectly transparent, is admirably ADAPTED for LADIES' FANCY WORK, &c.

In bottlee, at is, each.

NEUBER'S IMPROVED LIQUID GLUE.

NEUBER'S WASHABLE WATER VARNISH, for PAPER HANGING, &c., is withrait smell, and requires no preparation of size.—Best full bodied, 12s. per gallon; flat, 8s.; ind in bottlee at is, and the second of the second o

NEUBER'S IMPROVED SUPERIOR WHITE PAPER VARNISH, for MAPS, PLANS, &c.—14s, per gallon, and in bottles is. each.

NEUBER'S TRANSPARENT FRENCH POLISH, 25s. p. gal., and in bottles is. each.

NEUBER'S TRANSPARENT FRENCH POLISH, 25s. p. gal., and in bottles is. each.

Naptha Polish, 14s. per gallon; Best Dark Carriage ditto, 13s.; Pale, 14s. per ditto.

Wholesale at the Patentee's,

Varnish and Japan Manufacturer, 549, New Oxford-street, London.

Samples forwarded on receipt of 18 postage stamps.

Wholesale Agents—Low and Son, perfumers, 330, Strand; Hopwood and Parke, Flahtreet-hill, London; P. Walker and Co., Jamaica-street, Glasgow, and 1, Duke-street, etht; Robinson, Palmer, and Palmer, operative chemists, Colmore-row, Birmingham;

W. Sims, Bath; F. Myers, Freston.

N.B.—Respectable local agents are required for the provinces.

DAMPAND GASEOUSE X HALATIONS.

All MEMBERS of BOARDS OF HEALTH are especially DIRECTED to the most EFFECTIVE MEANS which they can ADOFT to PREVENT the injurious and often FATAL EFFECTS upon the HEALTH of the COMMUNITY, arising from exhalations that are produced from moistare, decayed animal matter (as in grave-yards), stagnant water, and collections of fortid refuse, tending to produce a miasmatic state of aimosphere. In situations so effected, the impervious quality of the ASPHALTE of SFYSSEL randers it the most perfect PAYEMENT or COVERING that can be relied upon for hermetically closing, and thereby preventing the rising of moisture and escape of noxious vapours. The present extensive application of this material for covering roofs, terraces, and arches, for preventing the percention of wet, is strong evidence of its effectiveness for the above purposes, which is further confirmed by the following extract from the Report of the Commissioners on the Fine Arts:—

"In 1889, I superintended the construction of a house of three stories on the Life."

"In 1889, I superintended the construction of a house of three stories on the Life."

"In 1889, I superintended the construction of a house of three stories on the Life. The foundation of the building is constantly in water, about 19½ inches below the level of the ground floor. The entire horizontal surface of the external and interval walls was covered at the level of the Internal ground floor with a layer of SEYS-SEL ASPHALTE, "loss than half an inch thick, over which coarse sand was spread. Since the above date, no trace of damp has shown Red from the walls of the lower story, which are for the most part painted in oil, of a grey stone colour. It is well known that the least moistare produces round spots, darker or lighter, on walls so painted. Yet the parement of the floor, resting on the sell itself, is only about 2½ in. above the external surface of the soil, and only 19½ in., at the utmost, above that of the sheet of water. The layer of Asphalte having been ro AMP AND GASEOUS EXHALATIONS.

MANHOOD: the CAUSES of its PREMATURE DECLINE, with plain directions for its perfect restoration. A Medical Essay on those discusses of the Generative Organs, emanating from solitary and sedentary habits, indiscriminate accesses, the effects of climate, and infection, &c., addressed to the sufferer in youth, manhood, and old age; with practical remarks on marriage, the treatment and cure of nervous and mental debility, impotency, applilis, and other urino genital diseases, by which even the most shattered constitution may be restored, and reach the full period of like allotted to man. The whole illustrated with numerous anatomical engravings on steel, in colour, explaining the various functions, secretions, and structures of the repreductive organs in health and disease; with instructions for private correspondence, cases, &c.—By J. L. CURTIS, consulting surgeon, 7, Frith-street, Sohn-sq., London.

We feel so heaitation in saying, that there is no member of society by whom the book will not be found useful—whether such person hold the relation of a parent, preceptor, or a ciergyman.—Sim, Evening Paper.

J. L. Curtis, on Manhood, and the Conses of its Premature Decisins; with Plain Directions for its Parices Restoration.—[Strange, Paternoster-row.]—This is a book replete with valuable advice and information. It developes the fearful shoals on which a large proportion of human happiness is wrecked, and furnishes a chart by which they may be avoided and escaped. Fortunate for a country would it be, did its youth put into practice the philanthropic and scientific maxims here laid down. One cause of matrimonial misery might then be banished from our land, and the race of the enervate be succeeded by a renewal of the hardy vigorous spirits of the olden time. — United Kingdom Magazine.

Manhood: J. L. Curtis and Co. —Their long experience and reputation in the treatment of these painful disease is the patient's guarantee, and woll deserves for the work its immense circulation.—Era.

Manhood: a medical work.—To the gay

strated by 26 Anatomical Coloured Engravings on Steel, On Physical Disqualification, enerative Incapacity, and Impediments to Marriage. New Edition, onlarged to Ju-gue.—Just published, price 2s. 6d., or by post, direct from the establishment, 3s. 6d

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SELF-PRESERVATION: A Medical Treatise, on the Physiology of Marriage, and on the Secret Infirmities and Disorders of Youth, and Maturity. of Marriage, and on the Secret Infirmities and Disorders of Youth and Maturity ily acquired at an early period of line, which enervate the physical and mental powers sais and enfeable the natural feelings, and exhaust the vital energies of Manhood Practical Observations on the Treatment of Nervous Debility, whether arising from with Practical Observations on the treatment of Nervons Debnity, whether arising from these causes, close study, or the influence of tropical climates; local and constitutional weakness, sysbills, stricture, and all diseases and derangements resulting from Indiscretion; with 40 coloured engravings, illustrating the Anatomy, Physiology, and Diseases of the Reproductive Organs, explaining their various structures, uses, and functions, and in injuries that are produced in them by solliery babits, excesses, and infection.

BY SAMUEL LAMEET, M.D., 37, BEDFORD-SQLARE, LONDOW.

Doctor of Medicines, Matriculated Member of the University of Edinburgh, Licentials of Apothecaries' Hall, London, Honorary Member of the London Hospital Medical Society, &c.

REVIEWS OF THE WORK.

Doeter of Médiciaes, Mariculated Member of the University of Edinburgh, Licentials of Apothecaries' Hall, London, Honorary Member of the University of Edinburgh, Licentials of Apothecaries' Hall, London, Honorary Member of the London Hospital Modical Society, &c.

"The author of this singular and talented work is a legally qualified medical man, who has evidently had considerable expressmene in the treatment of the various disorders, arising from the failine and frailities of early indiscretize. The engravings are an invaluable ad dition, by demonstrating the consequences of excesses, which must set as a salutary warning to youth and maturity, and by its perusal, many questions may be satisfactorily replied to that admit of no appeal, even to the most confidents afreight "—Ere.

"Unquestionably this is a most extraordinary and skilful work, and ought to be extensively circulates! for it is quite evident that there are peculiar habits asquired at public echocis and private seminaries, which are totally unknown and concealed from the conductors of those establishments, and which cannot be too strongly reprobated and condemned. The engravings that accompany the work are clear and expirantory; and condemned. The engravings that accompany the work are clear and expirantory; and ended the engraving state accompany the work are clear and expiratory; and condemned. The engravings that accompany the work are clear and expiratory; and some group of saving many a youth, as well as those of matures ago, from the various evil consequences resulting from early indiscretions." "Adagmet.

Sold by Keot and Richards, 52. Pas shouter-row; Hannay, 63. Oxford-street; Starie, 18thtorn-street, Haymarket: Mann No. 30, Carnilli Gordon, 146, Leadenhall-street; or inset by post, for 49 stamps, from the anthor's residence, who may be consulted per-onally (or by letter) on these disorderwisally, from 10 till 3, and from 5 till 8.

ON PYROGEN.-No. XII.

Since the publication of Ro. Xor of shee papers, an escount has appeared to some experiments by Mc. Grove, which, as far as they go, box on the coultr change produced by pracing upon medial in abstances. The essonial points of my hypotheese are, that progen, in passing along metal wire, a produce among produced by pracing upon medial in the supersisting medium, the wire media, and that, when the find its in still great quantity, some and-stances being interposed in the circuit, defigurate, and are allegable discussed being interposed in the circuit, defigurate, and are allegable discussed being interposed in the circuit, defigurate, and are allegable discussed being interposed in the circuit, defigurate, and are allegable discussed being interposed in the circuit, defigurate, and are adolgsable discussed by the electric currents of magnetic.

After receiting the experiments of Magneta, and are allegable discussed in the produced of the substances and the circuit, defigurate and the circuit a

for whatever be its origin it is purely a local effect, arising from some tem-porary derangement of the atmosphere at a particular point. It extends over only a comparatively small space, and does not at all affect the con-clusions to be drawn from the electric state of an undisturbed atmosphere.

VENTILATION OF MINES.—From the recent experiments at Birmingham, which showed that gutta percha tubing would resist a pressure of even 337 lbs. on the square inch, and the fact that it will not collapse when the atmosphere is withdrawn, it seems likely that this material will become valuable for the ventilation of mines. We find that 5-in, tubes can be made in single lengths of 50 ft., and not weighing more than from 50 to 60 lbs. each. This, together with the fact that the joints are so readily made, by simply warming the flanges and pressing them together, will render their erection is the shafts, &c., of mines a matter of comparative ease.

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of 50 ft., and not weighing more than from 50 to 60 lbs. each. This, together
with the fact that the joints are so readily made, by simply warning the flanges
and pressing them together, will render their erection is the shafts, &c., of
mines a matter of comparative ease.

Collein Strike AND Riots AT KILLINGWORTH Collies. At the last
general strike among the pitmen employed in the collieries of the Tyne and
Wear, and which lasted several months, it will be remembered that they ultimately returned to their work, having bows absolutely starved out, their
union funds exhausted, their credit stopped, and their homes ruined. For
some few months past, however, they have adopted the plan of striking in detachments; so that, while the men at one or two collieries remain idle, those
who are in work have supported them. With this arrangement, there have
been lately strikes at the collibries of Hartley and Hallowell; and the men are
now on strike at Killingworth and Westmoor. At these latter collieries, the
men have been out some weeks, without the alightest prospect of better arrangement, or receiving higher wages; and they have used every unlawful
means to inforce their demands, without proceeding to actual violence. On Monday night last, however, a number of men, disguised some in women's clothes,
others with their coats turned inside out, &c., assembled at Westmoor Colliery,
broke up the surface machinery, threw the material down the shafts, and otherwise injured the works. Having first driven the men away, they guited the
house of a man who had, not joined in the strike; they assailed the local police,
and broke the windows of the colliery. On the information reaching Nowcastle, a large body of mounted and armad police were dispatched to the scene,
when the body simultaneously attempted to run away, but six prisoners were
captured, whose names are Arnott, Teasdale, Puncheon, White, Baxter, and
Walker. Great damage has been done, and as further mischiel was feared, a
number of special c

ACCIDENTS.

Norwood Pt., Gaieshead.—As Anthony Forster was atwork, a "blower" suddenly cars off at the thill, and took fire at his candle, whereby he was much burnt. Alad, workin within 10 yards of him, was unburt; and the flame was readily smothered by a pirms with his jacket. Poor Forster lingered until Wednesday, the 4th inst, when he die aged 60 years.—Gaieshead Observer.

Sorwood FV., Guitakend.—As Anthony Forster was at work, a "blower" unddonly clame off at the fulli, and took fire at his candle, whereby he was much burnt. A lad, working with his jacket. Proor Forster lingured until Woundedy, the 4th burt, when he died, aged 60 years.—Guitahead Obasyer.

Tiplon—Dangrous Anneament.—As a number of lads were amoning themselves by letting each other down the shaft of a pit at Wallbrock, one of them, anned Smith, fell out of the skip. An alarm was instantly raised by his compnions, and some men having come to hic spot, one went down and brought up the dead body of the life lated youth. The shaft of a winner, and was only it juried deep.

The shaft was worked by a "winner," and was only it juried deep.

Facther, Ken, of Cilhon, on it a. "drawer." In one of the colliers belonging to Jacob waggons up and down the mine, standing at the same time as the bottom of the sind, a brick foil upon his head, and fractured his skull so dreadfully, that he died immediately afterwards. The shaft is Sy varis deep, and the brick had become detached from the side, about 15 feet from the 5a, so that it must have failed with great force.

Brierby Blill.—W. Askiss was killed by a Sid of coal extended the side, about 15 feet from the 5a, so that it must have failed with great force.

Brierby Blill.—W. Askiss was killed by a Sid of coal extended the complete the side of the side of the side, about 15 feet from the 5a, so that it must have failed to the side. The side of the s

Devices.—John Dees and John Lawson lost their lives in the Gosforth Colliery, parily from fire and parily from water.

Dudley.—John Round was killed by a fall of coal in Spring House Colliery.

Kingswintord.—W. Harkins was killed in a pil at Chapel Hill, belonging to the British Iron Company, by a fall of coal.

Portobelle.—Adam Downs, about 11 years of age, was killed by a fall of roof in Trentham Colliery.

Oldhom.—R. Ashworth was killed by a fall of roof in a colliery here,

A A is the haft, C, is shakes the learness the vord that cat from the sha and spread volving ma leys, O, N, discharged troughs, the negatively, magnets ar wound round r the other n ow of the evolves, a ary troug K is the the hopper less web, o magnets o der revolv the web, a the wires revolved b ing over a netic cylir are wound in which is so as to d

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ind the ore be discharge Fig. 1, is

Fig. 3: the cylind wires; an is about 3 inch thick each mag each of the with 30 r direction charged : endless a This n

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Baker, of have just The railinto trial and the ends, and circumfe so as to of pieces

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grooves table. 'trable.' from the table. 'from the the diffe a rim, to of the p some to off the a table, as the slee bolting rivettin two row preceed shafts a with all shoulde spheres the sho portion ing hee and int case. 'to deen and the shoulde and and the shoulde shoulde spheres the shoulde shoulde spheres the shoulde shoulde spheres the shoulde should sphere should be shoulded and the shouldes and interest to deen and the shouldes should sphere should be sho

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COOK'S ELECTRO-MAGNETIC ORE SEPARATOR.

It extends ect the con-tmosphere.

irmingham, ven 337 lbs. atmosphere able for the gle lengths is, together the flanges is, &c., of

At the last Tyne and the they ul-out, their and. For ing in de-ing in de-ing in de-idle, those here have a men are eries, the better ar-unlawful On Mon-s clothes, Colliery, and other-atted the all police, and other-atted the all police, and other-ers were ers were ter, and feet, and a held in the last of the

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The machine represented in the accompanying engarings was invented by Ransom Cook, Esq., late
superintendent of the Clinton County State Prison,
in the State of New York, and employed for the separation of the magnetic ore at the mines in that
lace. Our description of it is derived from the
Scientific American. The principle of this invention
consists in charging successively, by a battery, different rows of magnets on a revolving cylinder, so
instite magnets shall lift magnetic ore from an endse when the ore is lifted up a short distance, the
"ric connection shall be broken with the magnets,
and the ore then drop from them into a trough, and
be discharged into a proper receptacle.

Fig. 1, is a side elevation of the machine; fig. 2, a
top plan; and fig. 3, a sectional view.

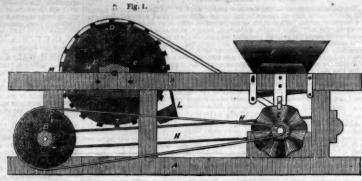
A is the frame; B is a pulley, by which the camhalf, C, is revolved. This shaft by the cam, C,
hakes the hopper, F, so as to spread the ore evenly
seross the web, H. This is done by having a hook
rod that catches the upper edge of C, and is made,
from the shape of the cam, to traverse across the web,
and spread the ore equally on the web. D is the revolving magnet cylinder, driven by band and pulleys, O, N, P. L is the trough, into which the ore is
discharged from the cylinder. X X are mercury
troughs, the one charged positively, and the other
negatively, from the battery, by the wires M M. The
magnets are fixed on the revolving cylinder, and
wound round with copper wire, the one positive and
the other negative. These wires are carried from
one magnet to another across the row, and brought
out at the axle of the cylinder, to form a circular fan
row of the points of the wires, so that as the cylinder, and
wound round with copper wire, the one positive and
the other negatively. The magnetic cylinder revolves, and these wires dip into the charged mercury troughs, the rows of magnets are charged and
thrown at the across the row and to the
magnets on the cylinder, D. The magnetic cylinder
is revolved by a broad band from the o

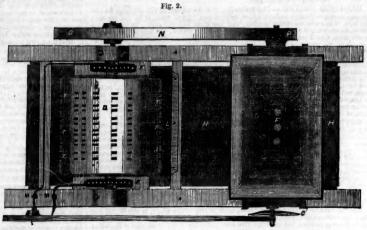
(the axle) is boxed up with wood and wires turned up on the outside of it.

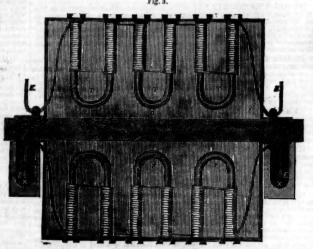
Fig. 3 shows the manner in which the magnets are arranged on the cylinder. D, is the cylinder; T T, the magnets; E, the current wires; and X, the trough, or vessel, of quicksilver. The cylinder is about 30 inches in diameter, and the magnets are about \$\frac{2}{2}\$ths of an inch between each of the magnets, and a large one has had 10 magnets in a row, with 30 rows on the cylinder.

It will be observed, that the wires are alternately wound in the direction of the polar currents. One wire is now represented as dipping in the mercury, but one-fourth of all the magnets are charged at the same time, as that number touch the mercury on the mader side of the cylinder; but the magnets are charged and discharged successively in rows. The ore is carried forward on the endless apron; and the magnet cylinder, by revolving in the same direction as the apron, lifts the ore, while the dross is discharged from the apron while passing over the roller.

This machine is not an untried one. It has been fairly tested, having been in operation at Plattsburg for some time, where it is stated to have exceeded the most sanguine expectations. When ore is associated with hornblende, no other process of separation can, it appears, compare with this.—Mechanics' Magazine.







IMPROVEMENTS IN RAILWAY WHEELS, TURN-TABLES, &c. - Messrs. Wm. Baker, of Edgbaston, and John Ramsbottom, of Longsight, near Manchester, have just obtained a patent for some improvements in the construction of railway wheels, and in railway turn-tables, which latter improvements are applicable to certain shafts or axles driven by steam, or other motive power. The railway wheel is constructed with spokes of angle iron, which are bent into triangles, and arranged in two eccentric circles with the bases outwards, and the ends which form the apices placed togather. The boss is cast on these ends, and the bases clamped together. The tire, which is made on the inner circumference, with a shallow dovetail groove, is then shrunk on to these basis, so as to draw each pair of spokes together, and the tire is held on by means of pieces of metal, which are driven into the spaces between each pair of spokes, and there held fast by rivetting or upsetting. The turn-table consists of top and bottom plates, which are suitably supported on a central shaft, and constructed with a number of eccentric and corresponding grooves in their inner and opposite faces. Spheres, cones, or cylinders, are then placed in the grooves of the lower plate, and serve as bearings to the top plate of the turn-table. The number of spheres, cones, or cylinders, are then placed in the grooves of the lower plate, and serve as bearings to the top plate of the turn-table. The number of spheres, cones, or cylinders, in these grooves, diminish from the outer to the inner one in a greater proportion than would be due to the differences of their diameters. The edges of the table are provided with a rim, to shield the interior from ballast, and to support the ends of the rails of the permanent way. The bottom plate is perforated with numerous holes, some to receive the spikes for bolting it to the sleepers, and the rest to drain off the sunface water. The patentees describe several modifications of the turn-table, such as forming the bottom plate of concentric grooves rings bolted to the sleepers or suitable foundation, and Baker, of Edgbaston, and John Ramsbottom, of Longsight, near Manchester, have just obtained a patent for some improvements in the construction of rail-

manner and for the purposes before described.—Mechanics' Magazine.

The Great Northern.—The works on this line, south of Doncaster, are proceeding very favourably. There is now a permanent line through from Doncaster to Bawtry, which is daily traversed by the ballasting engine. At Bawtry there is a wooden viaduet, about 500 yards long, which seems as solid and durable as the material of which it is constructed can make it. It is intended to have the line to the junction with the Manchester, Sheffield, and discolnshire Railroad ready by September, for the Doncaster races, and the contractors declare there will be no difficulty in doing this.—Sheffield Times.

NORTH STAFFORDSHIRE RAILWAY.—The Churnet Valley and Willington section of this company's railway is opened, and gives a through communication between Macclesfield and Liverpool, to Derby, viá Willington.

A DANGEROUS LIVER COMPLAINT EFFECTUALLY CURED BY HOLLOWAY'S

A DANGEROUS LIVER COMPLAINT EFFECTUALLY CURED BY HOLLOWAY'S PILLS.—Extract of a letter from Mr. W. Rogers, blacksmith, Havensworth Hunter River, New South Wales, to Mr. J. K. Heyden, agent for Holloway's Pills and Olutment at Sydney, dated Jan. 17, 1494— "Sir.—About 18 months since, I was attacked with a severe liver complaint, for which I consulted the two medical men of the district, but I derived no benefit from their treatment, and at last they gave me up, without the least hope of recovery. I then commenced taking Holloway's invaluable pills, and continued them for about swen weeks, and I am now completely cured. I have great pleasure in giving this pathicity to the case,"—Sold by all druggists, and at Professor Holloway's establishment, 244, Strand, London.

Self-Generating Gas-Lamps.—An action (Holliday v. Fawcett) has been brought, in the Court of Queen's Bench, to try the validity of the patent taken out by Mr. Holliday, of Huddersfield, for improvements in Self-Generating Gas-Lamps, which it was alleged had been infringed. From evidence it appeared that though several patents had been taken out for portable lamps, to burn gaseous or spirituous liquids without the use of wicks, none of them had succeeded, so as to be brought into extensive use, until the improvements introduced by plaintiff had removed the former defects; and that since those improvements had been effected the sale had been very great; and that unity of the new lamp was so manifest that many parties had commenced to make them without due license from the patentee, and, amongst the foremost, Mr. Fawcett, also of Huddersfield, whose son had been in plaintiff's employ during the time the models of different kinds of burners patented had been made for the purpose of being set forth in the specification. In support of the plaintiff's case, Mr. Carpmael, stated that he had been much consulted on the manufacture of lamps for burning various matters, and amongst others, for burning napha. He was well acquainted with all the different forms of the vapour lamp; and was aware that until plaintiff's lamp was introduced, none of them had been successful to any extent. He was of opinion that the peculiar forms of the plaintiff's burners were new and useful. Evidence of the extensive sale of the plaintiff's burners were new and useful. Evidence of the extensive sale of the plaintiff's paden; as Mr. Carpmael said, a very splendid flame, resembling that of a gas flame or burner. It was also shown that the defendant had, in the opinion of the witnesses examined, infringed upon plaintiff's patent; and in support of the bir testimony sections of each burner were produced. Counsel in setting forth plaintiff's case, stated that the action was brought to assert the right of plaintiff, and not withat view of obtaining

the patented improvements the patented improvements was addeed, which, however, signally failed, and the verdict of the jury established the exclusive right of Mr. Holliday to manufacture and vend his improved articles.

Make of Gas in Manchester.—There was made last year in Manchester 55,000,000 cubic feet of gas, and in the depth of winter it required 400 retorts in full work, and an annual consumption of Cannel coal of 25,000 tons. The yearly increase in the consumption seems to go on steadily, and with each successive reduction in price, it seems to advance in a still greater measure.

A Bunder Built in A Werk.—The erection of a large railway bridge, 75 feet 6 inches long, and 30 feet high, in a week, may be regarded by some as an impossibility, but the feat has been all but accomplished on the Leeds and Thirsk Railway. Messrs. Garside and Parker, sub-contractors, laid the foundation of a bridge of the dimensions specified, behind the Retreat, at Armley, near Leeds, on Monday, June 25; on the evening of the following day the abutments were raised to the springing, and the centres placed for supporting the stones of the arch during its construction. On the Wednesday evening the key stones were raised to the springing, and the centres placed for supporting the stones of the arch during its construction. On the Wednesday evening the key stones were reflected in the supply of stones for the parapet wall.

Leeds and Developed the forms a junction with the Leeds and Developed the forms a junction with the Leeds and Developed the forms a junction with the Leeds and Developed the forms of the following and the centres of the support of the stone of the read sone of the following depth from 7 to 806 feet. The strate me with in suiking the shafes consisted of blue shake and sandstone, and considerable difficult way was completed. It is intended to afford every facility to the pable by the base of the part of the same work of the most of the ment with the strate consisting of the third, way was completed. It is intend

INSPECTION OF MINES AND COLLIERIES.

The following is a copy of the Bill introduced into the House of Commons, by Mears. Wyld and Brotherton, to secure a due inspection of mines and col-

INSPECTION OF MINES AND COLLERIES.

The following is a copy of the Bill introduced into the House of Commons, by Mears. Wyl and Brotherican, to secure a due inspection of mines and collideries in the United Kingdom:—

I. Whereas summers accidents have arisen in the wetking of mines and collideries in the United Kingdom, and it may tend to the prevention of such accidents to secure a due inspection of such mines and collideries by the authority of Parliament is it therewhom the control of the Lords spiritual and temporal, and Commons, in this present Parliament assembled, and by the admirty of the assem, that it shall be hardly for the Mighty's Secretary of State for the House parliament for the line being, from the to time, as he may think, so remove the anse, and appoint of offers in their stead, provided that no greater number than forther inspectors of mines and collideries, shall be a day one time spinistic or in the state of the state

To owner of a mine or colliery situated in the scattering and county of . I hereby give you notice, that your mine or colliery appears to me to be dangerous, and likely to cause bodily injury to the workers omployed therein, in this respect ; and I am of opinion, that are necessary and essential to be made, to secure the dua and proper working of such mine.

[The words and clause printed in Italics are proposed to be inserted in the Committee.]

MINES AND COLLIERIES INSPECTION BILL.

MINES AND COLLIERES INSPECTION BILL.

In the House of Commons, on Tuesday, in answer to a question put by Mr. Fornes, Sir G. Gary said, that he believed it was the general opinion of the House that the further progress of the bill introduced by Mr. Duncombe, providing for the inspection of mines and collieries, should be postponed until next session, in order that the House might have the benefit of the reports of the inspectors appointed by the committee. He hoped the hon. Member would not press the bill farther; if he did, he should feel bound to oppose its further progress.

At a later period of the evening, Mr. Wyld pose to move the second reading of his bill—a copy of which is given above. He (Mr. Wyld) said the previous bill had been withdrawn in consequence of objections to certain principles embraced by it, entertained by the Secretary of State for the Home Department, and other members of the Government, But now that another bill had been brought in, confined entirely to the principle of inspection, he was surprised to hear that it was the intention of the right ion, gentleman to oppose it. Year by year these accidents were increasing. In the present year the sacrifice of life was 35 per cent. more than it was last; and if the Secretary of State for the Home Department postponed this measure to another year, on him would rest the responsibility.

Sir Groogo Graff thought that in the course of the full discussion of this measure the

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK.

[The meetings of Mining Companies are inserted among the Mining Intelligence.]

UNION BANK OF LONDON.

The tenth annual meeting of this company took place, on Wednesday last, at the bank in Princes-street, and was numerously attended.

Sir PETER LAURIE, Knt. and Alderman, in the chair.

The SECRETARY (Mr. Walter Laurie) having read the minutes of the lastand the advertisement convening the present meeting, proceeded to read the annual report of the affairs of the bank. It stated that, during the last 12 months, the pressure upon the commercial interests of the country, which was the subject of remark in the list report, had been continued, and in many instances aggravated, by the political convulsions which have distracted nearly the whole of Europe; that a low value of money had been the natural consequence of the influx of foreign capital and the contraction of mercantile enterprise; but that, notwithstanding these disadvantages, the directors were able to refer the proprietors to the balance-sheet, as now laid before them, as an evidence of the continued progress and success of the bank, from which it appeared that the net profits of the year amounted to 28,6174. 18s. 10d., out of which the directors proposed to appropriate a sum of 25,3741 for the payment of a dividend at the rate of 6 per cent., clear of income-tax, and 5004, as usual, in the reduction of the preliminary expenses, leaving an unappropriated balance of 27431. 18s. 10d. to be carried to profit and loss new account. The interest paid to customers on their current and deposit accounts, during the last year, amounted to nearly 34,0004. The accession of numerous and valuable connections, valuable not only as adding to the profits of the bank, but as evincing the estimation in which it was held by the public, proved to the directors the soundness of the cautious and prudent system of management they had endeavoured to maintain, and enabled them to assure the proprietors of the steady and gratifying progress of the company.—The report and balance-sheet appear in detail in our advertising columns.

The CHAIRMAN showed, that a dividend, after the rate of 6 per cent. per anum, be declared, free of income tax.—The resolution was passed unanimously. The CHAIRMAN said, only a small number of the reports had been printed for those who might be likely to attend the meeting; but when it was approved by them, it would be circulated amongst all the shareholders. He was happy to say that, amidst all the difficulties of the past year, and the convulsions over months, the pressure upon the commercial interests of the country, which was the subject of remark in the last report, had been continued, and in many in-

board one day without that qualification. If it was not a condition of the deed, it should be altered to that effect. (Hear.) If it could not be done without a public meeting, he should think that these gentlemen present would be happy to attend on another occasion, if they should not have time at present.

Mr. Webster was then elected unanimously.—John Barnes, Esq., and J. W. Sutherland, Esq., were also re-elected unanimously.

A PROPRIETOR said, the balance of profit was carried to the new account; but it was not stated what surplus there was after the rebate.

The MANAGER observed, that the 2700l. was the profit from the rebate on bills. That was all they had been able to make this year. The subject had occupied his anxious consideration; and he was glad to be able to produce such an account. (Hear, hear.)

Mr. Barnes (a director) said, that all bills were rebated at 2½ per cent. interest; the 2700l. was independent of rebate, or above and beyond the rebate.

Mr. Ald. Geach (of Birmingham) understood from the accounts that they had server fund of 33,000l.—that they had been paying 6 per cent.; and still they had got 2743l, which it was not worth while to carry into account. That balance would go to the next year's profit, and would, no doubt, be stated in the accounts. All this he thought was satisfactory. (Hear, hear.)

The meeting was then made special, for the purpose of taking into consideration the propriety of increasing the qualification of 20 shares per director to 100 shares, and for altering the clause of the deed for that purpose.

Mr. Bhown complained that the names of the candidates for the direction were not posted up or made conspicuous to the shareholders, after they had been qualified by taking a sufficient number of shares. The shareholders ought to have an 'opportunity of clecting their directors; and be hoped the board would see to the insertion of a clause in the deed to carry out such an object, if it were found necessary.

The Charkman said that he should be happy to take any notice fo

board would see to the insertion of a clause in the deed to carry out such an object, if it were found necessary.

The Charrman said that he should be happy to take any notice for another meeting. The directors did not wish to take in any one as a director, without he had the sanction of the proprietors also. (Hear, hear.)

A PROPERETOR asked, if the new qualification would take place at once, and be retraspective?—The Charrman replied that the alteration would be made retraspective, and so apply to the present directors.

After some further conversation, the resolution was passed unanimously.

Mr. Alderman Grach moved a vote of thanks to the chairman and directors of the company, which was seconded, and passed unanimously.—A vote of thanks was also passed to the manager, and other officers of the establishment, when the meeting adjourned.

BANK NOTES.—An important invention, for producing water marks in all kinds of paper, and particularly adapted for bank notes and paper requiring security from forgeries, has been patented by the inventors, Messrs. W. Brower and T. Smith, of Malcom-works, New-street, Clapham. The invention produces an unlimited series of any given design in watermark with precise similarity, which cannot be produced by the method now employed, in which wires are used. The water mark is produced without wire, and thereby the repairing of the wires is unnecessary. The time saved is almost as a hundred to one in comparison with the hitberto known processes, and the durability of the means employed infinitely greater. The results are the prevention of forgery, and the saving of time, labour, and expense.

Expenses of the New Houses of Parliament.—Some further returns

the saving of time, labour, and expense.

EXPENSES OF THE NEW HOUSES OF PARLIAMENT.—Some further returns have been published respecting the new Houses of Parliament, and the expense there by entailed on the nation. The first, presented to the House of Commons by the Queen's command, gives a summary of the estimate for the warming and ventilating apparatus, which amounts to 8859.1 13s. 6d.; of this sum, 1898. is to be appropriated to the boilers and heating apparatus; 892l. to steam-engine and apparatus in connection with it; 529l for the iron work and shaft, the valve work and connexions therewith; 1071l to miscellaneous iron work, and 174l to "additions." The second return relates to the remmeration of Mr. Barry, the architect, and the official correspondence on the subject.

MANCHESTER, SHEFFIELD, AND LINGUISHIER RAILWAY.—The Govern-

MANCHESTER, SHEFFIELD, AND LINCOLNSHIRE RAILWAY.—The Govern ment officer has inspected and approved of the opening of this company's line (31 miles) between Sheffield and Gainsborough. Its opening on the 17th will connect in a direct route the manufacturing with theagricultural districts, and complete an expeditious communication between Manchester, Liverpool, Ashton, and Sheffield, with Liscoln, Gainsborough, Great Grimsby, and the Eastern Counties. This company have just launched a now steamer on the Humber, to ply between Hull and New Holland, called the Sheffield, and it is intended as a companion beat to the Manchester, launched the other day in the Thames.

NORTH-WESTERN RAILWAY.—Another section of this company's main route of 42 miles is to be opened in a few days, extending from Skipton to Ingleton, and which, in conjunction with the other portions of the line, will give the abortest communication between the West Riding and west coast, the lakes, Carllela, and Glacaron. shortest communication Carliale, and Glasgow.

South Devon Railway.—A curious case has just been decided in the case of the South Devon Railway Company v. the Overseers of Dawlish. The company appealed against assessment to the poor-rate, on the ground that their line was not in the parish of Dawlish, but upon the shore of the sea below highwater mark, and consequently extra-parochial. The records of the ancient manor courts from 1750 were put in as evidence to show that the site of the railway, over which occasionally the sea now sweeps, was a part of the ancient manor of Dawlish, where tolls had been taken for landing goods, and the rate was confirmed, with costs.

Mining Correspondence.

The Commissioners of Inland Revenue having notified to us their resolve to charge with advertisement duty all reports having the agents' names affixed, we appealed to them in a memorial, setting forth that we, or the respective companies, desived no advantage therefrom—the only object sought, or obtained, being that of affording to the mine adventurer and public the greatest guarantee we could for the truthful and bond side nature of the statements periodically set forth, by authenticating them, and thus sixing a responsibility on the writer. The Commissioners have roulied, that "the reports, with names attached, are advertisements, and that duty will be charged thereon." We have no alternative but submitting to their dictum. How far the Commissioners are correct in the view they take, our readers can judge as well as ourselves;—we can but hope that on redisction, they will see the error into which they have failen, and reached the order they have issued. All reports inserted under this head, however, may, as heretofore, be considered as furnished by the regular agents of the company; and we shall carefully guard against the publication of statements which cannot be relied on as correct.]

BRITISH MINES.

ALFRED CONSOLS.—The lode in Field's engine-shaft, sinking under the 50, continues the same as reported for the last fortnight, excepting that the copper ore is more mingled through the capelly part of the ledes on Fiday last we increased the shaftmen to 12, to force it with all possible speed; the lode in the same level, west of the engine-shaft, is looking better than we have seen it since it has been driving, containing a branch of copper ore, good cray work, from 8 to 12 in. wide; the lode; in the same level east is about 2 ft. wide, poor. There is no change in any other part of this mine. The water is 15 fms. under the addit level in the Old Alfred Mine, and we have commenced setting up a whin to clear the 10 fm. level, in which, from appearances, we shall raise pretty much copper ore; several men are very desirous of working there on tribute; there are already up wards of 100 kibbles of ore broken. The water sinks in this mine about 18 in. in a week.

BAPPLUTTUNN.—The and driving on the junction, south of the addit level.

ards of 100 kibbles of ore broken. The water sinks in this mine about 18 in, in a week. BARRISTOWN.—The end driving on the junction, south of the adit level, producing about 6 cwts. of lead per fm. The eastern stopes, in the bottom of the adit vel are looking well, and producing from 10 to 15 cwts. of lead per fm. near the slide; a stopes in the back of the adit level are producing about 10 cwts. of lead per fm. The fm. level back and bottom are poor.

BEDFORD UNITED.—The following is a statement of the settings for the present month:—To sink Balley's winze, by nine men, 2] fins. stent, at 74. 10s. per fin.; the lode in this winze is rather smaller, and not quite so productive. To sink Grew's winze, by six men, 2 fins. stent, at 34. Per fin., and 4s. tribute; the lode in this winze is worth from 3 to 4 tons of good ore per fin. To drive east in the 103 fin. level, by six men, at 10s. per fin.; the ground continues favourable for driving, and we expect shortly to fall in with the south part of the lode. To drive east in the 103 fin. level, by six men, at 10s. per fin.; the lode is about 3 ft. wide, and yielding some good work. To drive east in the 70 fin. level, by four men, at 10s. per fin.; the lode is about 3 ft. wide, and yielding some good work. To drive east in the 70 fin. level, by four men, as fins. stent, at 74. 10s. per fin.; the lode in this end is 2 ft. wide, containing good stones, and presents very promising indications. The following pitches were also set:—fin the back of the 90 fm. level, to two men and two boys, at 12s. diff. to, two men, at 10s. at 10s. to the men, at 13s. diff. to two men, at 15s. diff. four pitches in the back of the 30 men, at 10s. diff. by two men in each; two in the back of the 70, by two men, at 13s. 4d., and one at 15s. 6d.; one in the 47 at 12s. 6d., and one at 13s. 4d. BRYN-AR-IAN.—The engine-shaft is down 12 fins. below the adit level, and west under, and about 6 ft. left for a tank, as the water is much increased, and is now become rather too quick to be kept with barries; therefore, we shall shortly be obliged to fix pumps from the adit to the 10 fm. level. The lode in the shaft is 8 ft. wide, and tides not appear that we have the north wall yet; it is composed of killes, spar, and ore, yielding from 12 to 15 cwts. of ore per fin. ; a more promising lode cannot be seen at that depth in any mine. The stope back of this level, east of this winze, is yielding 6 cwts. per fin. The stope back of the deep adit level, 17 BEDFORD UNITED.—The following is a statement of the settings for the

CWM ERFIN.—Our 20 fm. level, west of the whim shaft, is worth 10l. per fm.; the eastern end is poor. The sink under the 10 fm. level, west of the whim shaft, for 12 ft. long, is worth 15l. per fm. The sink under the 10 fm. level, east of the whim shaft, is for the length (12 ft.) worth 15l. per fm. There is no change in the weather, and our dressing is proceeding slowly.

nd our dressing is proceeding slowly.

DEVON AND COURTENAY.—The lode in the end, driving west in the in level, is 3 ft. wide, and is still composed of white iron, prinn, and occasional stone branches of ore. In the rise, which is now about 31 fms. above the bed of this level, doe is 3 ft. wide, composed principally of gossan, with some fine stones of gossan ore fierent places in the lode. In the end driving cast on the south lode is 12 ft. wide, posed of capet, spar, musdle, and apots of ore. The lode in the rise in the back of this continues to yield 14 tons of ore per fm.

level continues to yield 14 tons of ore per fm.

ESGAIR LLI.—The south lode in the stopes in the bottom of the deep adit, east of the engine-shaft, is much the same as last reported; the north lode in the deep adit east is increased in size since my hast report, and there is more water coming from the present end, and the lode is producing more fine lead in the small than in the rough. The whole of the smalls centrin lead; but not sufficient to put a value on. The lode in the winze below the shallow add it is looking quite as well as last reported. We are getting on with the dressing quite as well as can be expected without a crusher.

EXMOOR WHEAL ELIZA.—The caunter lode in the 24 fm. level is just as last reported on—composed of large masses of gossan, impregnated with copper, and presenting the most encouraging prospects. The cross-cut driving north, in the same level, is in clean killas, driving about 6 ft. per week. The engine continues to work well, nor have we had any difficulty in keeping the water of late.

HEIGHSTON DOWN CONSOUS — The ground in Bailan's engine shelf is

presenting the most encouraging prospects. The cross-cut diving north, in the same level, is in clean killas, driving about 6 ft. per week. The engine continues to work well, nor have we had any difficulty in keeping the water of late.

HEIGNSTON DOWN CONSOLS.—The ground in Bailey's engine-shaft is easier of progress than for some time past, and is anking with all possible dispatch. The lode in the 35 im. level, both cast and west of the cross-cut, looks exceedingly promising, the lode in the castern end being worth 9t. per fathom for tin ores, and the western end worth about 6t, per fin. for tin ores. The lode in Hitchins's shaft is not quite so large as last reported, but presents, in all respects, flattering indications of decided improvement.

HERODSFOOT.—The following is a statement of the settings of the current month, as furnished by Capt. James Seccombe, together with the value of the lode in each place, in a condensed form: —The lofe fin. level north: To drive the end, by 6 men, at 70s, per fin.—stones of ore; to stope the back, by 4 men, at 42s, per fin.—10 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—6 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—6 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—6 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—6 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—6 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—6 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—6 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—7 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—8 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—7 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—8 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—7 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—1 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—1 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—1 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—1 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—1 ewts, per fin.; ditto, by 4 men, at 50s, per fin.—1 ewts, per fin.; ditto, by

the same as last reported, from 16 to 17 feet thick, producing some good quality slags. Blackmoor we are, I am pleased to inform you, getting on satisfactorily with our differ operations—the dressing floors are in a forward state of completion. I hope are, week will see us almost in a working condition with this part of our proceedings. In engine-house is up and covered in, and I have just liven advised of the engine and the machinery being shipped last Friday. I, therefore, hope to bear of its arrival at his shortly, when no time shall be lost in getting it on the mine.

NANT-Y-CRIA.—The new lode in the adit west is looking much the same as when last reported.

s when last reported.

SOUTH WALES.—The lode in the Bodcoll's deep adit east is about 18 is taken to looking so kindly as whee last reported; the lode in the deep adit, east or hydens river, is looking much the same as last reported, producing a little lead, each condition of the looking much the same as last reported.

per, and mundle.

TRELEIGH CONSOLS.—Garden's shaft below the 113 is sinking in the country; south of the lode the ground continues good for slaking. In the 90, we of disto, the lode is 18 in. wide, worth 3t, per fm. In the 80, west of ditto, no lode to down this week, the 80 cross-cut north is driving to discover the north part of the in the 70, west of ditto, the lode is 3 ft. wide, with stones of ore. In the 60, west ditto, the lode is 3 ft. wide, with stones of ore. In the 60, west ditto, the lode is 24 ft. wide, with stones of ore, and is locking lindily. At Wheel Franch and the state of the

west of ditto, the lode is 1 ft, wide, still poor. At Parent whin-shaft the men are apployed in cutting a plat in the 12 fm, isvel, and preparing to sink to the 20 fm, lovel; at the middle lode, the rise, above the adfit, is 20 in, with, worth 16, per fm.; the shaft fm surface is now down about 7 fms.

WEST WHEAL JEWEL.—In the rise in the back of the 70 fathom level, west of Williams's cross-course, on Wheal Jewel lode, the lode is improved in the part west of Williams's cross-course, on the same lode, is worth 4. per fm.—sunk less may 2 fms. 2 ft. 6 in. The 47 fm. level, west of Williams's cross-course, on the same lode, is worth 4. per fm.—sunk less may 2 fms. 2 ft. 6 in. The 47 fm. level, west of Williams's cross-course, on dithe lode, is productive—drove last month 1 fm. 4 ft.; the deep adilt west, on dithe lode, is productive—drove last month 1 fm. 4 ft.; the deep adilt west, on dithe lode, is productive—drove last month 1 fm. 4 ft. 6 in. In the deep adilt, driving west of month 6 ft. 3 in. The 10 fm. the lode of the 12 fm. level, against Tregoting's shaft, no month 2 fm. The 37 fm. cross-cut nearly, on Hodga's cross-course, drove lamonth 6 fm. The 37 fm. cross-cut nearly, on Hodga's cross-course, drove lamonth 6 fm. The 37 fm. cross-cut nearly, on Hodga's cross-course, drove lamonth 6 fm. The 37 fm. cross-cut nearly, on Hodga's cross-course, drove lamonth 6 fm. The 37 fm. cross-cut nearly, on Hodga's cross-course, drove lamonth 6 fm. The 37 fm. cross-cut nearly, on Hodga's cross-course, drove lamonth 6 fm. The 15 fm. level course, and the per fm.; the stopes west of this winze, on the same lode, are worth 14 fp. per fm. the lode in the 12 fm. level, east of Tregoting's shaft, the lode is recoming the fm.; the stopes act of Tregoting's winze, on the same lode, are worth 15 fp. fm.; the stopes act of Tregoting's winze, on the same lode, are worth 15 fp. fm.; the stopes west of this winze, have a fm. the f

FOREIGN MINES.

GUADALCANAL MINES.—Guadalcanal, June 29.—The lode in the 31 in. level, Pezo Rico, as I anticipated; has made a further improvement this past week; we are now breaking some good work, und it is looking to-day better than I have between it; the productive part of the lode is now about 2 ft. while, and bids fair to contine so. Whole ground has been discovered in the 17 fm. level, San Antonio; the lode is splinted in the state of the lode is splinted in the state of the lode is splinted in the state of the state of the lode is splinted in the lode i

set fine, level acounts. To derive the end, by 4 sum, at 100, per fun., "It evels, per fun., "It is per fun.

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there must have already existed a great deal of overtime; and this further increase would make it appear that the physical force of blacks is considered at Morro Velbe to be elastic to an indefinite extent. It is not; and the share-holders will one day, perhaps not far distant, discover that, with the length of lode laid open, and the force on the mme, or likely to be obtained, vast errors were committed in putting up a powerful 36-head stamps, and by so largely increasing the fixed expenses of the establishment. Ambition is the noble fault of some minds; but it is more for the advantage of adventurers that their agents should bear in rememberance a homely adage, and "cut their cost according to their cloth."—Verax: City, July 12.

GOLD AND SILVER MINES IN VENEZUELA.

GOLD AND SILVER MINES IN VENEZUELA.

Sir.—It may be interesting to mining speculators, to be informed that in this neighbourhood there are extensive aliver mines, which have not been examined by any person, except myself, since the Spaniards discontinued working them, 35 or 40 years ago.

During a remarkably dry season, which happened in the year 1833, gold was found in the Yuanasi, a large river situated near the village, or mission, of Pastora. Owing to the apathy of the natives, no further search was made, until last month, when a party went to explore that river, and returned in a few days, with some very good specimens of gold, combined with quarts. The rains having now set in, no further explorations can be made until the dry season. I do not think that the Llaneros will be able to realise any thing worth speaking of, even if they should hereafter discover the mine; but some of my countrymen, who possess both skill and capital, may possibly consider this notice worthy of their attention.

Spanish Guayana is the southern part of the Republic of Venezuela. It is bounded on the north by the Orinoco, a magnificent navigable river. The country near the missions is extremely beautiful, and the climate unexceptionable. The temperature at Upata, which is about 1000 ft. above the level of the sea, ranges from 60° to 90° Fabr.

Travellers who desire to make themselves personally acquainted with the mineral or vegetable productions of these wilds, are recommended to proceed to Barbadosa, between the months of October and March, where they may procure a passage to Puerto los Tablas, on the Orinoco. Vessels may also be met with at Trividad, and other West Indian islands.

The Missions of Upata, Venezuela, Arthur Bailler, M.R.C.S. Lond.

May 3.

EAST CROWNDALE MINE.

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EAST CROWNDALE MINE.

EAST CROWNDALE MINE.

Six,—From the reports of this mine that have, from time to time, appeared in your Journal, I have been expecting that I should receive a dividend. Within the last few weeks, from information that I have obtained, I am led to suppose that, instead of this being the case, a farther call will be made. I have yet received no notice that such is the intention of the committee, but the heavy expenses entailed on the mine by the purchase of machinery, and the lowness of the returns as compared with the estimates (which is now a notarious fact), will, I apprehend, leave them no other course to pursue. Whether the fault of these overdrawn statements and erroneous returns lay with the management in London, or at Tavistock, is impossible for me to say; but I think it would be an act of justice to the shareholders, no less than a source of sa isfaction to the directors, who should be anxious to clear any doubts that might probably attach to them, that a thorough and searching investigation should immediately take place to discover from what source the evil has arisen. Great discredit has, at times, been thrown on the mining community, in many cases undeservedly; and probably I may be in error here, but I am convinced that exaggerated estimates, and inflated reports going forth to the world, inflict great evils on the mining interest of the counties of Cornwall and Devon, and tend much to hinder that legitimate and honest speculation which ought to be the basis of all commercial transactions. I accuse no one, nor do I wish to raise a clamour against any particular individuals. Great errors, to use the mildest term, have been committed; while we seek to repair them, it is necessary to let those who are calpable feel that their incompetence, neglect, or wilful deception will not be allowed to pass over, without such notice being taken of it as to prevent the recurrence of such circumstances, while it will be a warning to all managers and agents that a day of reckoning will come, that when discrepancies a

ANTIMONY AND SILVER-LEAD MINING COMPANY.

ANTIMONY AND SILVER-LEAD MINING COMPANY.

Sir.—In reply to "M. M.'s" letter, in your Journal of the 29th of June and 7th July last, I must state, that he has had the opportunity of inspecting the accounts, and his solicitor called at the office of the company in February last, when he produced a letter from "M. M.," and examined the cost-book. I now enclose you a copy of the balance-sheet, by which it will be seen that the balance in hand depends on the payment of certain Bills of Exchange, to the amount of 4801, given for and on account of shares, and should such bills be taken up, the balance will be such as was published in your Journal. "M. M." is liable to the payment of the last call, which will exonerate him from further liability. With respect to the sale of mining shares, it is well known that a great difficulty exists in obtaining buyers, revious to the mine cutting rich, unless such mine is paying dividends—East Wheal Rose and many other mining shares were perfectly unsaleable, previously to the discoveries made, and then rose to an enormous premium.

I beg to tell "M. M." that I court the fullest inquiry, and, in justice to the shareholders, he should publish the report of Capt. J. Hitchins, late of the Great Roagh Tor Mine, who inspected this property for, and on his account. With respect to the anonymous letter of one who signs humself "A Shareholder, but not in the Autimony," I defy him to prove the statements put forth by him, more particularly as relating to the parties who inspected the mine, as they are known practical men, among whom are Capt. John Vivian, of Truro; Capt. John Spargo, of Stoke Climsland, and Capt. James Hosking, of Callington; the whole of whom agree with the report proviously given by Professor Ansted, and they have all expressed a strong and decided opinion on the ultimatesuccess of the undertaking. Had your anonymous correspondent attached his name to his letter, I should have been in a position to have shown that this "Simon Pure" has recommended mines on which have been

Statement of Receipts and Expenditure, from April, 1848, to June, 1849.

1848 — To equivalent of deposit of 51, per share on 400 shares gra Deposit of 51, per share on 110 shares				1000	0	0
Ditto 3l. per share on 10 shares	30	0 6	9			
Sale of 1 ton of ore at 10/	10	0 (-	590	0	0
Deficit due to purser			-	340		0
Total			2	2930	5	0
By 400 shares granted to lessee, as per contra				2000	0	0
Stationery, printing, &c				930	5	0
Total						0
1349-Assers-To bills at 4 and 6 months for 120 shares, sold	at 4/. ne	r sh.	£	480	0	0
360 shares unsold, equal to						.0
Deposits due on the 10%, shares				20		0
Liasilities - By deficit to purser, brought over	******		£	340	6	6

TO THE SHAREHOLDERS IN CARADON COPPER MINE

TO THE SHAREHOLDERS,—As there have been of late meetings in various places respecting lord and tenant right, I think the tardy and lukewarm indifference that has all along distinguished the management of Caradon Mine suggests the necessity of our holding a meeting on shareholders' rights. We require protection against the waste of time and capital. The majority of adventurers in this mine have for a long time advocated the erection of a steamingine, instead of the very innequate water-power with which we have been annoyed. At the meeting held on the 11th of June, it was proposed the shareholders should meet on the 13th June, to consider the propriety of supplying the means for procuring steam-power. Not having since heard aught of the proceedings, or conclusions arrived at, I conclude that no meeting took place, or that the purser was, for some reason, negligent of duty. Again; in most mines it is the custom to audit accounts every two months; but in Caradon Copper there were only two in the past year—viz.: February and September. As we have paid 4l. 7s. 6d. per share, with which the shaft has been sank only 10 fmas, and cut a plat to intersect the north lode, and a cross-cut driven? fms. to intersect the south lode, the greatest distance driven on either of the lodes being 15 fms. If, then, we can afford to lay out 1120l. to penetrate on furthers, undoubtedly we can better afford to advance 1280l. for a steamer of 40 in. cylinder, and to sink the shaft 15 fms. deeper. I hope no shareholder will draw back at this most important crisis—even now when the prospects of the mine are better than at any former period, promaling ample reward for our past and fature outlay. The reports given by competent agents and practical miners have from the commencement been flattering—the deeper we have sunk, the strata and lode have greatly improved.

Brother shareholders, let us "be up and doing." I, fi.: my own part, am convinced that, if we had had an engine two years since, we should be now in receipt of good dividends; and h

BOLANOS MINING COMPANY.

BOLANOS MINING COMPANY.

A special meeting of the chareholders in this company was held yesterday, at the offices, Duke-street, Adelphi.

Sir Romerr Paice, Bart., in the chair.

The Charman informed the meeting that, as atated in the notice, it was called for the purpose of altering the Deed of Settlement, so as to legalise the issue of shares having a certain preference over the old shares, such as proposed by the resolution passed on the 27th June, which alteration the directors were advised was expedient before proceeding to the confirmation of the said resolution for raising further capital. The resolution proposed having been read, some discussion ensued upon the plan adopted for issuing new shares, the principle of which plan is, that the party advancing 3/ per share, shall have that 3/, returned out of first profits, and retain possession of a share free; one of the proprietors being of opinion that it would be better to dissolve, and form a new company under a new name; while the majority considered that the old shareholders should have the opportunity given them to proceed with the working of the Cerro del Bote Mine as at present, especially as it holds out appearances so favourable to a prosperous result. The resolution for altering the Deed having been put and carried, it was agreed that another meeting to confirm the same, and the resolution for raising capital, should be held, of which due notice will be given.—A vote of thanks was passed to the chairman, and the meeting separated.

ROYAL SANTIAGO MINING COMPANY.

ROYAL SANTIAGO MINING COMPANY.

separated.

ROYAL SANTIAGO MINING COMPANY.

The half-yearly meeting of this company was held at the offices, in Broadstreet-buildings, on Wednesday, the 11th inst.

Baron Dr. Goldbard in the chair.

The Secretary read the following report:—

In submitting the report on the affairs of the company to the proprietors at this-periodical meeting, the directors regret that they are unable to announce any very material improvement in the lodes on which the operations for discovery are progressing. The proceeds of the one which has been raised in the half-year ending 28th Feb. last, although a great part of it has been taken into account at the late great reduction in price, are more than sufficient to pay the expense of working the mines from which it has been obtained. Owing, however, to many new demuncias of mineral ground, and the consequent expense of carrying on operations to explore/the lodes in them, and of constructing some new works for the supply of water to clean the oras, there is an excess of expenditure in the half-year beyond the receipts, of 1226, 3a, 9d., as is shown by the accounts laid on the table. These new denuncias comprise several argentificrous veins, attate a few leagues from Cobre, and of copper lodes situate at Holgain. A quantity of the mineral from the argentiferous veins, which arrived in this country, gave by assay a high per-centage of lead and silver; but the lode, which was of promising appearance at the surface, on being sunk to the depth of several fathoms, became very coarse and disordered. The reports on the copper or mine at Holgain continue favourable. A shaft was sunk, and the add level had intersected a vein about 4 ft. wide, yielding 2 tons of rich ore per fin. About 14 fous had been extracted, and the last letters report the lode to be very much improved. The workings in the newly acquired pertenencias will be limited, unless a favorable preper of success should lead to more extended operations. In the Trevince Mine, at Cobre, a good lode was cut in December isst, 7 to 8 ft

sengenment, by concessions on both sides, which will terminate and seitle all the differences which hither have subsisted between the two companies. A kew months will, however, elapse before these arrangements can be completed. The directors beg to remind the proprietors that at this meeting one directors, Sist Simuel Scott, Earl., goes on thy rotation, whom they propose for re-election.

The accounts were also read to the meeting.

The CHALEMAN said, he would take the liberty of moving, that the report he received, and entered on the minutes. They would find that the dispute which had been existing for some years between the Cobre Company and themselves had been adjusted. It was always a pleasant thing to hear of any question arising between two rival companies being arranged. That was now the cases with the two companies, and he fully expected that the result of the arrangement would be the payment of a sum of money to the Santiago Company, He would beg, for the present, not to say anything of the terms, as the negaciation was still going on, but all would be signed and sealed by their next meeting. (Heart, Bear.) As to their capital, it mould be seen by the accounts, and the same property of the second property of the

Sir Samuel Scott was re-elected a director, and Mr. Alderman Copeland was elected as auditor.—The meeting then adjourned.

HEIGNSTON DOWN CONSOLS MINING COMPANY.

The usual bi-monthly meeting of shareholders was held at the offices of the company, Threadneedle-street, on Tuesday, the 10th inst.

"The balance-sheet presented showed a balance of 640£ 9s. 7d. in favour of the company, with 179£ 15s. calls not received. The prospect of the mines may be gathered from the following report of Mr. J. H. Hitchens:—

July 7.—Balley's enrine-shaft, which is our despest point of operation, is now down.

be gataneted from the following report of Mr. 2. A. Articles 2.

July 7.—Balley's engine-shaft, which is our deepest point of operation, is now down
below the 35, or bottom kerel, 4 fms. 2 ft., and in somewhat easier ground. The future
progress of this important object may, therefore, be calculated upon being more satisfactory. Frees what has been sees of the lote in the shaft, a portion only of which has
been carried in sinking, although such portion has been fully equal to the whole width
of the said shaft, there is no hesitation in reporting the lote to be one of more than ord-

narily promising character, and showing every probability of productiveness at no much greater depth. The 35 fm. level is extended from the said shaft cast on the course of the lode 9 fms., and there has been also a cross-cut driven through the lode, which has proved it to be altogether full 25 ft. in width, portions of same showing equally kindly indications of gossas, spar, and strong copper greens, as referred to in former reports. The lode in the present cut cast simproved, being now driven on the tis portion thereof, which is about 15 inches wide, and producing good saving work, equal in value to about 34, per fathom; in this level we are also driving back west towards the said shaft on same portion of the lode, which is producing some good work for the, equal to about 64. per fathom. Hitchins's shaft, on the next nearest south lode, is sunk below the 12 fm. level 6 fms. 3 ft.; but for the present it is smaller, not more than about a foot in width, although of a kindly description, yielding very rich stones of copper ore in places—some of which were not long since pleasurably furnished for the inspection of the adventurers. The parcel of fin now on the floors, and in course of preparation, will be about 5 tons altogether, and will be ready about the 24th inst. I have no hesitation again in saying, that I entertain not the slightest miziving as to the results of this concern, added by a little more of proper trial and development.

LOSTWITHIEL CONSOLS MINE.

A general meeting of adventurers was held at the offices, King-street, Cheap-side, on Thursday, the 12th inst.,

P. DAVEY, Esq., in the chair,
At which Mr. John Offord (the purser) was present, when the minutes of previous meetings were confirmed, and the balance-sheet was passed, subject to the usual audit by Messrs. Ruston and Smith, and of which the following is an abstract:—

ı	Cost at the mine to the end of May, and in London to the end of June, 1849 £4306 Unpaid calls and cash at the bankers	13	0
١	Total £4494	1	1
I	Total calls, including the 30th January, 1849 £4329 Liabilities	10	11 2

LLWYNMALEES MINING COMPANY.

A special meeting of shareholders was held at the offices of the company, Copthall-court, City, on Tuesday, the 10th inst., to receive the following report from Mr. Murray, and for other business:—

A special meeting of shareholders was held at the offices of the company, Copthall-court, City, on Tuesday, the 10th inst., to receive the following report from Mr. Murray, and for other business:—

I have lately, according to your request, inspected your property in Cardiganahire, accompanied by the purser, Mr. Maitland. A period of intermonths has elapsed since I last had the honour of reporting to you on these mines, and I now feel most happy to be able to continue the encouraging weekly accounts sent from time to time during that period in the contract the value of the probable with the property of the contract of the contract in the same of the probable with the contract of the contract o

would only cost 75t., and render unnecessary the extensive rods we are now obliged to use. This report gave much satisfaction, and was received unanimously. The shareholders appeared to have great expectations of the mine, and in proof of this it was stated, that shares had changed hands by private bargain at greatly improved prices. The amount in favour of the mine was stated to be 397t., and it was expected that, with the sales of ore, no other call would be required beyond, perhaps, about 10s. per share; and should it be found that the waterpower would be sufficient, to avoid the necessity for a steam-engine.

MINING COMPANY OF IRELAND.

MINING COMPANY OF IRELAND.

In our last Journal we gave the directors' report, presented to the half-yearly meeting, held at the offices, Lower Ormond-quay, Dublin, on the 5th instant, and we now append the discussion that followed its reading, which we were then compelled to omit.

The Charrman observed, that in the report and statement of accounts, the directors had fully explained the distressing condition in which the affairs of the company then stood, together with the views respecting future prospects. As a - circumstance bearing on the present state of the company, he might be allowed to mention the fact, that within the last two weeks an advance had taken place in the price of copper, by which the value of the stock at present in the hands of the company was increased by 700. dove the sum at which it had been estimated in the accounts. Another matter calculated to dispel, to some extent, the gloom which hung over them, was to be met with in the circumstance, that within a few days intelligence had arrived from their agent for the sale of coal and culm at Thurles, to the effect that the demand for those articles had of late considerably increased.

The question for the adoption of the report having been put from the chair, A Proprietor remarked that, from the manner in which the report was framed, it was calculated to lead the public to infer that dividends had been paid on the capital of the company up to December, 1848, which was not the fact, inasmuch as no dividends had been paid for a long time previous to that date.—The Chairman and, it was not the desire of the directors that any misapprehension should exist on this subject. The last dividend was struck up to January, 1847.—Mr. M'Owers observed, that there was a feeling prevalent that the expenditure of working the concern was too heavy, and that if steps were not taken to reduce it, the company would, in a short time, become involved in great trouble. He would be glad to know whether any reductions had been effected since the last meeting?—Mr. Gu

were not taken to reduce it, the company would, in a short time, become involved in great trouble. He would be glad to know whether any reductions had been effected since the last meeting?—Mr. Gibbox replied, that at present the expenditure was reduced to the very lowest ebb, consistent with the efficient working of the concerns.

A PROPERTOR said, it might be worth while to mention a fact he had learned since he had entered the meeting—that the directors had consented to accept one-half their allowance.—Mr. Gibbox stated, that the observation of the proprietor did not apply to the present half-year only. Ever since the dividends ceased the salaries of all the officers of the company had been reduced. Hitherto, owing to a protracted famine and the general distress consequent thereon, with the markets shat up, and a heavy poor law to encounter, they could not have expected to prosper; but having the was to be hoped, passed over those trying times, and looking forward to the future—with their mines in excellent working order—they only needed a market for their produce, which they might reasonably expect to have in a short time hence, in order to return to a state of prosperity.

A PROPRIETOR inquired, whether any reduction of the poor rate, lavied off the property of the company, had been effected in consequence of the appeals which had been lodged?—The Charrenta rate had been made.

The report was then adopted, and the following gentlemen were elected auditors for the ensuing half-year:—John Ennis, William Hopkins, and Henry Pim, Esqs.

SOUTH WHEAL JOSIAH MINING COMPANY.

SOUTH WHEAL JOSIAH MINING COMPANY.

A meeting of proprietors was held, on the 3d July, at the Queen's Head Inn, Tavistock.

The PURBER: in the chair.

The accounts and vouchers to end of April were examined and passed, showing balance in favour of mine, 10t. 8s. 10d. A call of 10s. per share was made.

—The following report, from Capt. John Hambly, was read to the meeting:

July 3.—I have much pleasure in presenting you with a report of the above mine, and in doing so vould congratulate the adventurers on the great prospect of success in the same. Since our last meeting, we have driven the allt end on the Wheal Jake Thomas lode about 20 fms., and have gone through two cross-courses; the lode is very regular, but in its appearance changeable, and is now about 3 ft. wide, and at all times carrying a flookan on file wall, and is composed of spar, gossan, soft prism, mundle, and copper, stones o' which are not the table before you, and finer specimens of black ore and gossan can be soon or equalled in but few new mines at the present depth. We are now under the surface about 12 fms., therefore cannot expect to have a more cheering prospect than we have at present, until we have driven further in the hill, and then, from the present midications, I think there can be no doubt of having a good lode. In the south ground we have, by shode pits, found two tin lodes and a copper lode; but, whether this is the Hawkmoor lode, and I rather think it is a the lode in the Cletter's adit, which gives a very me appearance there, with copper in it; in the shode pitt it is about 23 ft. wide in your discovered is about 24 ft. wide in your family producing good samples of its; but further trial must be made on the back, &c., before saying much about its value, and from of a large pile saved for the stamps, it has been judged worth 6 evrs. of the per 100 sacks, and 1 think this lode is likely to pay well for exploring. There are several other lodes in the sett yet to be cut, and, from those rich shode stones of tin found about the sur

WHEAL LAWRENCE MINING COMPANY.

WHEAL LAWRENCE MINING COMPANY.

A special general meeting of shareholders was held on Friday, the 13th instat the offices of the company, Winchester-buildings, for the purpose of the ordinary business, and particularly to receive Capt. James, who had arrived from the mines near Exeter, with important information.

The report, containing an account of the primary operations, was read. The adit driving from the banks of the river along the course of the great north and south lead lodes into the hills, to intersect the east and west copper lodes, was described, and specimens of its produce, in the shape of fine stones of gossan, mundic, crystallized quartz, lead, &c., were placed on the table, and were deemed very satisfactory, as indications on the great north and south lode, which has proved so productive in contiguous mines. The prospects of economically working this sett were satisfactorily proved; and the meeting separated, after a vote of thanks to Mr. Forsyth, the chairman.

GALVANISED IRON COMPANY.

The adjourned general meeting of this company was held on Thursday, the 12th inst., at the London Tavern, Bishopsgate-street, and was numerously attended.—A plan for the final winding-up of the company was laid before the meeting, and unanimously approved of. It stated that the Welsh property had been disposed of; and that negociations were also pending for the disposal of the company's property in Staffordshire. Arrangements were also commenced for transferring the galvanised iron business to a certain portion of the shareholders.

We understand that, from some of the most influential of the body having signified their intention of joining the new concern, the capabilities of this most important invention are likely to be brought more prominently under the notice of the public.

After a vote of thanks to the chairman, and an expression of confidence in the board of directors, the meeting separated.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

CALLINGTON.—There is an improvement in the 70 east, on Kelly Bray lode which is looking very promising indeed.

which is looking very promising indeed.

Rhoswyddol. And Bacheddon Mines.—There are four levels driving here—the adit, 30 fms. from surface; one, 10 fms. deeper; and another, 17 fms. deeper; and another deep adit, called Smithy level, coming under the whole at a depth of 77 fms. from surface. There are besides several stopes in the different levels. The ends of these four levels driving are orey. The Smithy level has been two years driving; and we have made a great discovery of lead in this level during the last few days; the lode is 5 ft. wide—20 in. of which is very good ore; the other part is full of strings of lead, and will yield nearly two tons to the fathom; but it is expected that this is only the commencement of a great course of ore, as they have opened on it in the levels above for 60 fms. in length. Besides the four levels driving, there are seven stopes raising ore; and in a very short time they expect to put the mine down as a regular dividend-paying concern.

TAMAR SILVER-LEAD.—There have been sampled here 109 tons of ore 415.

TAMAR SILVER-LEAD.—There have been sampled here 109 tons of ore (15 ma 19 cwts. of which are from the north mine) for sale on the 17th inst. Should his sell as well as that for May, it will leave a profit for June of about 780%.

tons 19 cmts. of which are from the north mine) for sale on the 17th inst. Should this sell as well as that for May, it will leave a profit for June of about 780/.

EAST CROWNDALE.—In our last week's Journal we mentioned a report that we had heard, of the returns from this mine not being commensurate with the estimates. We are sorry to state, from accurate and authentic information, which we have received from parties conversant with the property, that this is fully confirmed. It appears that, after driving the deep adit, the company, in little more than a year, from a shallow depth, a few fathoms below the surface, have raised into the value of about 2000/. sterling. From the reports which they received, they were led to imagine that a greater quantity had come to grass than has actually been the case. Acting upon the exaggerated reports and erroneous statements which they received, they were induced to purchase a steam-engine, and other necessary machinery to erect on the mines; at the same time, they anticipated from the surplus to pay a dividend. Unfortunately, they have since discovered that the fin raised, though it is sufficient for the working expenses, will not liquidate the demands on the adventurers for the machinery, consequently a fresh call of 10s. per share will be necessary. As far as the mineral capabilities of the mine are concerned, there is but one opinion—that it is a good property, and, if fairly and honestly worked, would return a good interest on the capital embarked. As far as we can learn, we understand that the reports which have been issued have given more cheering prospects than circumstances would warrant. Whether this has arisen from ignorance, or has been wilfully done, we are at a loss to conjecture. We had hoped, from the various exposures that have, on different occasions, occurred, that we should not have cause to allude to transactions which, at the same time they throw great discredit on the individuals concerned, have a blighting influence on the property entrusted to thei

Wheal Bray Corper Mine.—With a prospectus of this mining company we have received the information, that immediately previous to the panic occasioned by the railway mania, this sett was in the hands of a company of nine individuals; and one of them wishing to relinquish his interest, and his friends not wishing to press him, and other circumstances, the mine was suspended, with 2000. worth of ore in sight. There are three setts very extensive, situated in the parish of Altarnun, and held on leases for 21 years, at moderate dues, and it is the general opinion of numerous mine agents that the spot is one of the richest for copper in the county. About 13,000. have been expended on the mine, two shafts have been sunk respectively to 56 and 40 fms. each, and 300 fms. driven on the course of the lodes, leaving the ore in sight mentioned above. Many miners who know the mine are anxious to commence on tribute. There is an excellent water-wheel 36 ft. diameter. 4 ft. and me, each, and 300 tms, driven on the course of the lodes, leaving the ore in sight mentioned above. Many miners who know the mine are anxious to commence on tribute. There is an excellent water-wheel 36 ft. diameter, 4 ft. abreast, and shops, counting-houses, dressing-floors, &c., are all in good condition, and ready for working. It will, however, be necessary to erect a stempengine, for the full and continuous development of the property, and it is desired to divide the 64 original shares into 1024, on which 1L per share is proposed to be paid, and it is fully expected this sum will put the mine in propictable work. There is a large quantity of every necessary material on the property, and the granite is cut, and on the ground ready for building the engine-house. From the high standing of the present holders, whose names are given at the head of the prospectus, there can be no doubt of the legitimate character of this adventure; while there is every reason to believe, from all the evidence adduced, inspection, and general indications, that the speculation will prove highly profitable.

WORTHE OF IMITATION.—At the Glamorganshire Quarter Sessions held last week at Neath, the Clerk of the Peace was ordered to return all coroners' bills in which the causes of death is not fully set out—ex. gr., instead of "accidental death," the words "killed by a fall of earth," &c., are to be hence-forth substituted.

FALLOFAN AERIGLIES.—The Presseof Sunday records the fall of an accident

FALLOF AN AESOLITE.—The Pressrof Sunday records the fall of an aerolite of five kilogrammes in weight, at Triguênes, near Montargis, at the close of a violent storm. It was composed of crystal, sulphur, and a substance resembling plaster.

FOREIGN INTELLIGENCE.

The accounts which have reached as this week from Germany speak of the disastrous effects which the Danish blockade as entailing on all classes of the community. The principal part of the merchants of Hamburgh are paying their labourers their wages, though they have no work to employ them, fearful of a general rise should they stop their payments. At the Elbe Copper-Works the proprietors are building two new furnaces, and renovating the eight which they already possess. The workmen are employed in making floors for the reception of coals and slag banks, the establishment not having had any supply of ores for some time. In Saxony, owing to the revolution, mining industry has received a severe check. The mines and smelting-works of the Government were suspended during the emeute at Dresden, but they have since been resumed, though not with their wonted activity. Quicksilver from the mines of Idria had been offered to the Amalgamation Works at Freyberg, at the rate of one Saxon thaler and ten groschen, delivered duty free. Notwithstanding the lowness of the offer it was not accepted. Trade and commerce, both there and in Prussia, had been severely paralysed by the late events. Several Saxon mining officers, who have been compromised in the late political movements, have been obliged to fly the country. The ordinary tribunals have been suspended, and those concerned in the late insurrection are subject to be tried by court martial.

MINING IN UPPER CANADA.—We understand that a company of Canadians, who have been for some time working the Bruce Copper Mines, in the province of Upper Canada, intend to establish smelting works to reduce their produce on the spot. Parties are now in England, preparatory to making

dians, who have been for some time working the Bruce Copper Mines, in the province of Upper Canada, intend to establish smelting works to reduce their produce on the spot. Parties are now in England, preparatory to making the necessary arrangement.

California—A letter from Philadelphia, dated June 27, says—"We have received here an immense number of letters from San Francisco, in most of which the gold regions are described as teeming with untold wealth. This intelligence, and the large amount of gold dust brought by the Crescent City, have renewed the California fever in all its original furor, and it is not likely for some time to diminish, as, at the moment of writing this letter, I learn that the brig fad has arrived at this port with 14 passengers from Chagres, vià Kingston, and gold dust and lumps worth \$300,000! The amounts which have reached this country and the consignments on the way from California, are reported at \$4,000,000. Disging graves is described as being light work in comparisons with the labour of disging for gold in California! So it appears that the way to wealth is strewn with thorns. The diggers are sometimes up to their knees in water—sometimes parched and maddened with a broiling sum—anon shaking with ague or scorched with fever—lighting with Indians, or weak and exhausted for want of food. Such are the accompaniments of success at the mines. On returning to San Francisco, gambling, drinking, and exposure, produce sad havoc among the reckless many—while the pricient few, who patiently submitted to toil and privation, realise tolerable fortunes. But a period—a crisis—is threatened in California, realise tolerable fortunes. But a period—a crisis—is threatened in California, recipients, and particularly Mexicans and South Americans, are pouring into California, and particularly far outnumber the Americans. The latter content that foreigners have no right whatever to the mines, and that they must be expelled at all hazards. This threat appears also, from the tone of our advices, to be mi

Bew Batents.

SPECIFICATIONS ENROLLED DURING THE PAST WEEK.

Specification of patent granted to Michael Loam, Treskerley, Cornwall, engineer, for improvements in the manufacture of fuzees. —A strip of calico, or other suitable elastic fabric, is led from a reel underneath a hopper filled with gunpowder, and is caused to assume the shape of a trough, which, when supplied with the necessary quantity of gunpowder, is farawn under weighted projecting pieces, and through a hollow axis, which have the effect of bending the edges of the calico over, so as to complete the tube. Upon this axis is a collar, which supports a rotary plate, and carries an adjustable sliding piece through which the tube is led. The rotary plate is furnished with a convenient number of bobbins, having yarns or threads wound upon them. The sliding plate is perforated with holes, and the threads are passed through them, and attached to the tube. The plate and bobbins are made to revolve, and the tube drawn out, whereby the threads or yarns are wound round it. The tube, as it is drawn out, is wound upon a dram. Instead of threads or yarns, it is proposed to use a tape. When the tube has been thus far completed, it is coated with some waterproofing material as usual.

Carian.—Anunfacturing fuzees for mining and other purposes by means of calico, or other suitable flexible fabric or material, which is progressively made to assume the form of the internal tube.

John Coope Haddan, 29, Bloomsbury-square, C.E., for an improvement or imp

of the internal tube.

John Coope Haddan, 29, Bloomsbury-square, C.E., for an improvement or improvement in railway wheels.—This invention consists—I. In making the spokes of wrough iron bars, which have their nave ends bent into the form of three sides of an equilateral polygon, so that they may overlap one another. These ends may be placed radially or tan gentially to the centre, and welded to one or between two checks, and are cut away from the centre hole of the check, so a not to come in contact with the saits. These spokes may either be of the L or T form, and are bent into the desired shape at the nave end by means o suitably shaped blocks.—2. The tyre of the wheel is made of less diameter at the parnext to the flange than in the centre, in arder that the tread may be on the centre of the line of rails.—3. To enable the flanged wheel to true on tranways, a ring with a plain periphery and a portion of its inside circumference chalked down to receive the flange is shrunk on. Claim.—The three several modes of constructing railway wheels.

shrunk on. Claim.—The three several modes of constructing railway wheels.

William Rowe, New Wharf, Whitefriars, London, carpenter and joiner, for certain improvements in the mode of uniting or combining pipes or lengths of pipes, tabes, or channels formed of glass, earthenware, or other similar material.—The pipes are constructed near their points of junction with inside or outside grooves or projections, and are united by means of metal clips or classe, furnished with corresponding grooves or projections. Rings of some suitable elastic material are interposed between the points of contact of the tabes, to allow of their being brought close together. Or, in order to dispense with the mag of the elastic rines, the external diameters of the ends of some of the tabes are made smaller than the ends of the others, in order that they may fit into one another, and are furnished with ears whereby they are boited together.

Claims.—The uniting of pipes: 1. By means of grooves on their exterior circumferences and mdented metal clips, in combination with clastic rings.—3. By means of projections on their internal diameters and metal classes, in combination with elastic rings.—4. By means of projections on their carefular construction which allows of the use of the elastic rings being dispensed with; and 8, Permits of their being holted together.

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

R. Garrett, Leiston Works, Suffolk, agricultural implement maker, for impro-horse-hoes, pugmills, drilling and thrashing machinery, and in steam-engl oliers for agricultural purposes. T. S. Summers, Cornwall-terrace, Lee, Kent, lighterman, for certain improver

in horse-hoes, pugmills, drilling and thrashing machinery, and in steam-engines and boilers for agricultural purposes.

T. S. Summers, Cornwall-terrace, Lee, Kent, lighterman, for certain improvements in fastenings for mouths of sacks and bags.

W. Laurie, Carlton-place, Glasgow, merchant, for improvements in means or apparatus to be employed for the preservation of life and property, such improvements, or parts thereof, being applicable to various atticles of furniture, dress, and travelling apparatus. J. Goodler, Mode Wheel Mills, near Manchester, miller, for certain improvements in mills for grinding wheat and other grain.

G. A. Robinson, gentleman, Long Melford, Suffolk, and R. E. Lee, gentleman, Glasgow, for certain improvements in the maunfacture of bread, and in the machinery and apparatus to be used therein; and also improvements in the regulation of overs and farnaces, part of which improvements are also applicable to other similar ascful purposes.

E. I. Fuller, Margaret-street, Cavendish-square, carriage builder, and G. Tabernacle, Mount-row, Westminster-road, coach fron founder, for certain improvements in metallic aprings for carriages.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

C. Hart, Wantage, Berks, plough-head.
T. Evans, Southampton-street, Strand, fastening for collars, stocks, shirts, and fronts.
W. Goose, Birmingham, self-feeding apparates for mail machine.
J. Smith, Corven, near Wolverhampton, feeding apparatus for mills.
E. Burges, St. John-street-road, Clerkenwell, fire indicator and alarm.
G. Harborow, Holborn-laws, shirt collars, harness back-band lag.
Insole, Jones, and Kimberloy, Birmingham, harness back-band lag.
F. E. Colegrave, Brunswick-terrace, Effektion, constabilor staff.
J. Whitehead, Preston, agricultural amedines maker, tile machine expander.
J. Jones, Duke-afreet, Liverpool, talkings symetrometer.
T. Allen, Radellife, Lancashire, twine box.—Mechanic's Magazine.

BRITISH BANK.—The BRITISH BANK have now REMOVMED their OFFICES (from No. 32, Threadneedle-street) to their temporary business premises, No. 16, TOKENHOUSE-YARD, LOTHBURY.

BRITISH BANK.—As the DEED of CONSTITUTION is now in the COURSE of SIGNATURE by the SHAREHOLDERS, proparatory to the Bank being Incorporated by Royal Charter.—Application for the remaining unal-lotted shares, addressed to the secretary, must be accompanied by the preliminary deposit of £10 a share.—Temporary Offices, 16, Tokenhouse-yard, Lothbury, London.

ENTH REPORT OF THE UNION BANK OF LONDON.

Sir PETER LAURIE, Alderman, Governor, in the chair. W. M. NURSE, Esq., Deputy-Governor.

George Webster, Esq. John Barnes, Esq. J. W. Sutherland, Esq

Charles Lyall, Esq. John Chapman, Esq. Honry Hulbert, Esq. Archibald Boyd, Esq. Lieut. Colonel Mather John Scott, Esq. tors. n, M.P. 42

And 78 proprie

John Connell, Esq.

And 78 proprietors.

At a GENERAL MEETING of the proprietors, held at the court-room of the banking-house, 2, Princes-street, Mansion-house, on Wednesday, the 11th of July, 1849—
The following report was read by the secretary:

The following report was read by the secretary:

The directors have much satisfaction in again meeting the proprietors, and submitting to them the tenth annual report of the affairs of the bank. During the 12 months which have classed since the last general meeting, that pressure upon the commercial interests of the country, which was the subject of remark in the last report, has been continued, and in many instances agravated, by the political convulsions which have distracted nearly the whole of Europe.

A low value of money has been the natural consequence of the influx of foreign capital, and the contraction of mercantile enterprise, resulting from this state of disturbance; but, notwithstanding these serious disadvantages, the directors refer the proprietors to the annexed balance-sheet, as the best evidence of the continued progress and success of the bank, from which it will be seen that the net profits of the year amount to 28,6171. 18a. 10d., out of which the directors now propose to appropriate the sum of 29,3741; being a dividend at the rate of 6 per cent. per annum, clear of income-tar; and 500/, as usual, in reduction of the preliminary expenses, leaving an unappropriated balance of 37434. 18a. 10d. to be carried to profit and loss new account.

The proprietors will observe, that the interest paid to customers on their current and deposit accounts, during the last year, amounts to nearly 34,000/.

While the directors are aware that the cautious and prudent system of management which they have endeavoured to maintain may not have resulted in the more rapid accumulation of profits which might perhaps have been obtained by incurring greater risks, yet the accession of numerous and valuable connections, valuable not only as adding to the profits of the bank,

£3,308,517 3 8
Surplus profit 28,617 16 10 Cr. ASSTTS.

Cash in the bank, in the Bank of England, loans, Exchequer Bills, and other Government securities, bills discounted, &c. £3,205,206 11 6 £25,035 13s. 11d. bank stock (reserved fund).

Bank premises, consisting of freehold buildings in Prince-street, Mansion-house, and Angyll-place; and purchase of lease and fixtures of premises, 4, Pall-mail East 52,744 11 0 Preliminary expenses. 11,500 0 0 Half-year's dividend to 31st Dec., 1848, amount carried forward. 12,667 0 0

Total £3,337,135 2 6

 Appropriation of the Surplus.

 idends on pald-up capital—viz.:
 Half-year, to 31st Dec., 1848, already paid, at 3 per cent.
 £12,687
 0
 0

 Half-year, to 30th June, 1849, now declared, at 3 per cent.
 12,687
 0
 0

£25,374 0 0 500 0 0 2,743 18 10

Total £28,617 18 10

Profit, as above, after deducting all expenses paid or due, and interest (33,7451, 15s. 10d.) allowed to customers on their current and deposit accounts.

£28,617 18 10
The Governor declared a dividend of 3 per cent., clear of income tax, for the half-year mining 30th June, being at the rate of 6 per cent. per annum, payable on and after the Districtions.

Resolved unanimously,—
That the report be received, approved, and printed for circulation among the pro-

rictors.

That George Webster, Esq., be re-elected a director of the bank.

That John Barnes, Esq., be re-elected a director of the bank.

That John William Sutherland, Esq., be re-elected a director of the bank.

That it be a recommendation to the directors to take into their consideral ect of the interest at present allowed to customers on their current accounts.

ject of the interest at present allowed to customers on their current accounts.

The meeting was then made special, for the purpose of considering the propriety of altering the qualification of the directors, and it was Resolved unsultanosity.—That the qualification of the directors be, and is hereby increased, from 20 shares at the least, to 100 shares at the least, and that the clause of the Deed of Settlement be altered accordingly.

A proprietor then gave notice of a motion for the next annual general meeting, for as alteration in the 73d clause of the Deed of Settlement, relating to the present mode of supplying temporary yacancies in the direction.

Resolved unanimodaly,—That the thanks of the meeting be given to the governor, deputy-governor, and directors, and to the general manager, and other officers of the bank, for the able and successful manuser in which they have conducted the affairs of the company.

The most cordial thanks of the meeting were voted to Sir Peter Laurie, the Governor, for his able and courteous conduct in the chair.

(Signed) W. M. NURSE, Deputy-Governor, Oxford and the minutes.

W. M. NURSE, Deputy-Governor. W. LAURIE, Secretary.

Extracted from the minutes.

[From the Plymouth Journal.]

WHEAL RUSSELL.—The quality of the ore discovered in the shaft at about 12 fms. under the level of the Tamar, is very good. The lode appears to be large, and there is every reason to expect that she will make a good sinion.

WHEAL CALSTOCK.—The new lode cut in the wheel-pit is composed of peach, priangessan, and yellow salphuret of copper; it is from 1 ft. to 18 in. wide, and, as its underlay is north, it will intersect the lode on which the largest operations are being carried on at no great depth, and at the junction of these lodes, a large deposit of ore may safe; be calculated on. One great advantage possessed by this company is, that a cross-cut of about 70 from the old engine-shaft will intersect these lodes at from 60 to 70 fms. below the deep adit, and as the shaft is sunk in firm ground, the old nine may be forked for a very trifling cost beyond the outlay for the eagine.

PLYMOUTH WHEAL YEOLAND.—It is expected that the north lode will be cut 10 fms. under the tribute pitches in about three weeks, which will do much to develope the mine-the pitches continue to be productive, and the machinery works well.

PLYMOUTH WHEAL YEOLAND EAST.—This addit is not as yet cleared to the extent of the old men's workings, and they have taken away all the backs, proving that this ground must have been productive of much tin.

WHEAL ANDERTON.—A meeting of adventurers was held on Wednesday, at the Royal-Hotel—Mr. W. E. Elliott in the chair. The appointment of a purser was deferred until the audit committee had gone through the book, it being the opinion of the meeting that should the affairs of the mine be iound properly conducted, the present parties should the affairs of the mine be comed a properly conducted, the present parties and additors as those chosen at the last meeting were retained.

ACCIDENTS—(continued).

Cefa Colliery, Vitalyjera.—G. Griffiths was killed by the failing of a bucket on his head.

Tinorgit.—J. Trevala, aged 15, was precipitated into the samp with the barrow he was filling, from the soller over the shart giving way; it was 20 hours before the body could be got out.

Dolocath.—N. Pearce was crushed to death by a fall of stone in the 132 fm. level.

Wheal Mary, Lelant.—R. Stevens fell 50 fms. down the shaft, and was killed on the spot

we would call attention to a diagram, with some remarks, in another column, of Mr. Fourdrinier's machine for preventing accidents by the breaking of ropes and chains—a subject of paramount importance, and, in colliery economy, second only to a proper system of ventilation.

THE PURCHASE OF IRON RAILS FOR THE NEWCASTLE AND BERWICK RAIL-WAY.—The committee of investigation into the conduct of Mr. Hudson, and the past management of this railway, have elicited facts of the most starting character. It appears that, on the lith January, 1845, and immediately before the bill for making the Newcastle and Berwick Railway was submitted to Parliament, Mr. Hudson concluded a contract which had been partly made in the previous month of October with Messrs. Thompson, Forman, and Co., fron manufacturer, of London, for the purchase of 10,000 tons of fron rails, at 6: 10s. per ton. The first meeting, of which any record appears, of this provisional committee of the Newcastle and Borvick Railway Company was on the 30th of January, 1845, at which were present Mr. Hudson, Mr. Davies, and Mr. James Richardson, when it was resolved to advertise for tenders for the supply of 20,000 tons of iron rails; and an advertisement accordingly appeared in the papers, signed by Mr. Hudson, as chairman, requiring tenders to be sent in. On the 5th March, the same parties, with the addition of Mr. Plava, assembled, and tenders were received from various persons. Messrs. Thompson and Forman these sent in a tender, which was accepted for 14,000 tons, to be supplied at 121, per ton. Four other parties were permitted to supply 1000 tons each. It appears that by arrangement with Thompson and Forman, Mr. Hudson was interested in this contract to the extent of 7000 tons—that quantity having been supplied out of the 10,000 tons purchased by Mr. Hudson at 61. 10s. per ton. The profits on the supply of these 7000 tons would amount to 38,500; and Mr. Hudson must have known that he was acting illegally in being interested in any such contract with a company of which he was chairman.

Current Prices of Stocks, Shares, & Metals.

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P. 42

ibmitting the which interests nued, and ed nearly

m capital, urbance; rietors to I success mount to e sum of ome-tax; copriated

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STOCK EXCHANGE, Saturday morning Eleven o'cleck. ANGS, Saturday moraing Eleven Balgian, 4½ per Cant., 85 42 Dutch, 2½ per Cent., 51 4 Brazilian, 5 per Cent., 52 Chilian, 6 per Cent., 94 Mexican 5 per Cent., 304 Russian, 5 per Cent., 1064 6 Spanish, 5 per Cent., 174 184 Ditto 3 per Cent., 347 4 Bank Stock, 7 per Cent., 198‡ 3 per Cent. Reduced Ann., 92‡ 3 3 per Cent. Consols Ann., 92‡ 3 3 per Cent. Consols Ann., 92‡ 3 2 per Cent. Ann., 92‡ \$ 1 Long Annulties, 8‡ India Stock, 10‡ per Cent., 252 3 per Cent. Consols for Opg. 92‡ ‡ 3 Excheq. Bills, 10001., 1‡d. 48 50 pm.

MINES.—The transactions which have taken place in the share market have not shown signs of any great improvement over those of last week; still a moderately fair share of business has been done, and we can by no means say the market has been heavy.

not shown signs of any great improvement over those of last week; still a moderately fair share of business has been done, and we can by no means say the market has been heavy.

A few Devon Great Consols have been done at prices rather under our present quotations, and, although buyers are to be found, still sellers maintain the quoted prices. Mary Ann, East Wheal Rose, South Frances, South Basset, West Buller, and other leading and promising mines have been inquired for, at limits rather under prices quoted.

At the Wheal Comfort meeting a dividend of 21. 10s. per share was declared on the two months' working, leaving a balance of about 1701 in band. Wheal Margaret is stated to have fine courses of tin in the 110, 120, 130, and 140 fm. levels; this is one of the best, if not the richest, tin mine in the county of Cornwall. Lelant Consols, which immediately adjoins Wheal Margaret, on the east and south, has the above rich levels of the latter mine running towards this sett.

Tamar Consols is represented to be looking remarkably well, several of the deepest levels having much improved. In the 70 fm. level east, on the Kelly Bray lode, an improvement has taken place; but the extent has not been officially made.

Tincroft continues to improve, and some very important discoveries have been made. The reserve of ore here, we understand, is greatly increasing, waiting only for a better price.

Among the improvements during the week, we may notice Caradon Wheal Hooper, where a discovery has been made in the 66 fm. level. Kingsett and Bedford lead lode has also improved to a great extent.

Shares in the following mines have changed hands since our last:—Devon Great Consols, Trelawny, South Basset, Bedford United, Trehnne, Mary Ann, Kirkeudbrightshire, Wheal Franco, Kingsett and Bedford, Wheal Anderton, Wheal Asb, East Tamar, Tany Consols, bedo the improving, particularly as regards the copper lode, of which the manager continues to anticipate the most sanguine results.

The usual bi-monthly meetings of East and South Ta

In the foreign mines the transactions in shares have not been extensive, although there has been bargains in St. John del Rey, National Brazilian United Mexican, Copiapo, and inquiries for Asturian, but at a considerable discount.

United Mexican, Copiapo, and inquiries for Asturian, but as a considerable discount.

At the Bolanos meeting resolutions were passed for the alteration of the Deed of Settlement, and another meeting will be held in about a fortnight. We gave full particulars of the pian proposed for raising further capital, in the Journal of the 30th June.

The meeting of the Santiago Mining Company was held on the 11th. The financial statement shows an expenditure of upwards of 1200l. above the receipts. This excess of outlay appears to have been principally occasioned by operations in developing new ground, with a view of effecting discoveries, which is expected will be found productive before long. The estimated value of machinery, buildings, materials, and other property on the mines is given at 44,000l., and a reserved fund of 26,000l in the hand of the directors, out of which they did not consider it advisable to declare a dividend; but, from present prospects, one may be auticipated at the next meeting. The long pending suit between this company and the Cobre had resulted in an amicable arrangement.

HULL, TRURSDAY.—The share trade remains without the slightest degree of animation, although food prices are low, the manufacturing districts in an improved state, and morey abundant. All that we can say of the report of the committee of the York and North Midland, issued since our last, is, that it is so far not so bad as people expected and were prepared for, and they have, therefore, taken breath again.

Names of Rallways.	Len 1849	gth. 1848	Present ac-	Price p. share			Return
Aberdeen	33	16	1,000,547	172 8	-	E-	£ 443
Belfast and Ballymena	371	374	2,000,141	20	5*	573	429
Birkenhead, Lancashire, & Chesh.		15	1,088,804	37	5+	1075	807
Bolton, Blackburn, & West Yorkeb.		-	786,384	7	1 -	445	001
Bristol and Exeter	754	754	2,660,490	664	-	4610	
Caledoniau	141	141	4,865.135	254 1	13	6046	4140
Chester and Holyhead	84	594	3,358,217	174	4	2268	1045
Dublin and Drogheda		354	774,875	29	1 -	914	789
Dablin and Kingstown	71	7	395,915	-0	1-	1184	1447
Dundee, Perth, & Aberdeen Junc.		478	544,554	20	61	1076	986
East Anglian (Lynn to Ely)	914	554	1,167,104	2 1	08	717	548
East Lancashire	754	24	2,628,519	174	5	3711	1086
Eastern Counties and Norfolk	322	295	12,027,069	81	-	16425	15840
Eastern Union	504	504	1,712,703	13	1=	1633	1303
Edinburgh and Glasgow	574	524	2,644,378	40 1	6	3499	7790
Edinburgh and Northern	78	34	2,232,115	118	2	2148	1395
Glasgow, Palsley, and Ayr	1024	74	2,574,330	57	3	2917	2102
Glasgow, Palsley, & Greenock	23	23	848,328	144	2	1139	
Gt. Northern & East Lincolnshire		20	4,255,171				1218
Gt. Southern & Western, Ireland	1681	1101	3,172,519	104 4	51	2157	0000
Great Western	230	206		334	6†	3530	2657
Great Western			11,608,615	84	64	16405	21924
Kendal and Windermere Lancaster and Carlisle	104	104	174,600	8	-	222	199
	70	70	1,476,102	594	44	2437	2128
Lancashire and Yorkshire	206#	127	9,218,450	81	54	14057	10427
Liverpoel, Crosby, & Southport.	13	100	84,455	-	-	241	
London and North Western	435	428	25,077,942	132	7	45288	42170
London and Blackwall	54	4	1,299,675	4.0	1-12	1221	1260
London, Brighton, & South Coast	170	1624	6,382,281	374	2	10498	9531
London and South-Western	216	194	7,510,689	364	54	12281	10521
Londonderry and Enniskillen	144	144	171,026	16	-	161	155
Manchester, Sheffield, & Lincolnsh.	1294	944	6,048,679	36	0	-	2554
Midland Company	471	4234	14,042,340	664		21811	20881
Midland Great Western (Irish)	50	364	725,332	244	41	1350	911
Monklands	37	-	500,000		6	-	-
North British	1094	83	3,649,055	134	48	2846	2013
Scottish Central	454	-	1,364,228	24	7	1347	805
Shrewsbury and Chester	48	23	969,618	141	5	1302	705
South Devon	57	29	1,909,232	12 13	5	1953	1620
South-Eastern	1654	165	8,116,914	21	54	10152	9641
Taff Vale	40	40	879,110	-	74	1753	1570
Ulster	36	36	723,829	452	-	769	753
West Cornwall	13	-	_	-	-	273	-
Whitehaven Junction	12	12	150,879	94	3	251	199
York, Newcastle, & Berwick	269	242	6,827,849	20	7	13074	11869
York and North Midlend			4,983,618	204	7	8917	8275
FOR	EIGN	RA	ILWAYS.				2000
Amiens and Boulogne	764	68	1,462,562	-7 1	94	1163	1114
Dieppe	26	-	-	-	-	-	-
Dutch Rhenish	574	571	-	64	-	-	1148
Montereau and Troyes	714	714	-	-	-	1020	-
Northern of France	211	211	7,142,890	104 10	-	12564	9228
Orleans to Bourges (Central)	1074	1074	1,229,848	-	4	2409	1385
Orleans to Tours	72	72	600,000	32		12256	10228
Paris and Orleans	82	82	2,011,720	304	81	7310	4181
Paris and Rouen	85	85	2,082,916	221	5	6043	3891
Rouen and Havre	594	2	2,272,176	104	200	2881	1608
Strasburgh and Basie (monthly)	88	88	-12121110	6	- 1	*801	1000
West Flanders (ditto)	_	-	-	19			1
	100	1100	£232,364, be		1 1	1000	4000

PROFESSOR KERSTENS.—We regret to inform our readers, that this celebrated chemist, who filled the mineralogical and metallurgical chair at Freyberg, has been visited with that awful calamity, the loss of reason, and has for some months been the immate of a linatuc asylum. His recovery has been despaired of by his medical attendants. Mr. Scherer, who was professor of mineralogy at the University of Christians, has been appointed his successor.

Per cent.—† Interest.—Total for last week, £239,364, being an incres

PRICES OF MINING SHARES.

BRITISH MINES.	BHITISH MINES - continued. Shares. Company. Paid. Price 128 South Caradion 5 400 1100 South Dolcoati 4 5 206 Sth. Friendsh. Wh. Ann 30 28 3 256 South Melton 5 144 1 256 South Melton 16 42 4 266 South Treawny 28 4 5 2000 South Wheels Mining Co. \$\frac{1}{2}\$ 11 128 South Wheel Basset 200 340 5 124 South Wheel Basset 200 240 5 124 South Wheel South 3 3 26 South Wh. Frances 160 240 26 South Wh. Frances 160 240 26 South Wh. Frances 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Shares. Company. Paid. Price. 1000 Aborgwessin	128 South Caradon 5 400
1000 Antimony&Silver-Lead 5	256 Sth. Friendsh. Wh.Ann 30 28 3
1024 AshburtonUnited Mines 8 12	256 South Molton 5141 i
1624 Balleswidden 9 18 128 Eainoon Consols 424 60 10000 Banwen Ivan Co 6 6	256 South Trelawny 284 8
10000 Banwen from Co. 6 6 6 1000 Barristown 54 12 2 1000 Barristown 1 14 4 4000 Bedford 52 34 34 34 34 34 34 34 3	128 South Wheal Basset - 204 - 340 5
4000 Bawden 1 . 1 2 3	256 South Wh. Joshh — 3
1244 Birch Tor Tin Mine 9 . 94 9 8000 Blaensvon 50 . 124 5000 Blishand Consols 1 . 6 100 Botallack 182 . 25	1000 South Wh. Maria 24 11
5000 Bilsland Consols 1 6	236 South Wh. Joshih
120 Brewer 5	94 St. Ives Consols — 89
120 Brewer 5 5 5	94 St. Pres Consols 89 128 St. Michael Penkivei 5 19 599 St. Minver Consols 1 6 1000 Stray Fark 43 17 9600 Tamar Consols 3 7 1024 Tavy Consols 6 2 2 6000 Theory
128 Budnick Consols 521 10 1000 Callington 20 10 12	9600 Tamar Consols 3 75
1000 Camborne Consols 6 6 64	1024 Tavy Consols 6 2 24
256 Caradon Copper Mine 91. 11	1000 Th Vale 24.
-256 Caradon United 24 5 8	256 Trugordan 2 2 3
256 Caradon Wh. Hooper 21 42 1000 Carn Brea 15 102 3000 Carthew Consols 15 5	1024 Tavy Consols 6 2 2 2 6000 Tincroft 7 10\$ 11 1000 Tin Vale
3000 Carthew Consols 11 5	2000 Trenance 3 — 96 Tresavean
3000 Cartnew Consens 1	120 Trethellan 5 15 1 120 Treviskey and Barrier 130 80 288 Trevean 14 1 200 United Mines 50 150 256 Wellington Mines 25 45 50
256 Condurrow20 70 75 774	258 Treveau
1000 Coombe Valley Quarry 31. 4	256 Wellington Mines 25 45 50
242 Craddock Moor 234 5	128 West Baller 10 290 256 West Caradon 29 125
128 Creeg Braws 120 30	128 West Buller
1000 Cwm Erdn 3 2½ 24	200 West Seton 40 160
300 D.Prior & Buckfastieigh	120 West Trethelian 5 16
7100 Derwent	256 West United Hills 48 512 West Wheal Frances 13. 2
1000 Dhurode	256 West Wh. Friendship. 9 . 8
2560 Drake Walls 51 3 4 10000 Durham County Cont. 45 5	012 West Wheat Frances 13 2 256 West Wh. Friendship 9 8 3725 West Wheat Jewel 12 1 1 256 West Wheat Treasury 9 4 5 102 West Wheat Treasury 9 4 5 1024 Whiddon Mines 4 2 2 200 Wicklow Conner 5 8 8 8 8 8 10 10 10 10
	1024 Whiddon Mines 42 2
512 East Alvenney 54 6 2500 East Birch Tor 3 3 112 East Caradon 47 47	107 Wheat Adams 79 30
2500 East Birch Tor	1000 Wheal Agar
512 East Combe Silver-Lead 64 64 128 East Pool 15 45	240 Wheat Anderton 204 22 2
9000 East Tamar Consols 1 1 4	128 Wheal Anna Maria 63 8 1024 Wheal Ash 44 8
1024 East Wheal Fortune . 2 . 3	1024 Wheal Ash 44 8 120 Wheal Bal 5g 15
128 East Fool	256 Wheal Benny 144 . 2 1024 Wheal Bray 10 . 10 256 Wheal Blencowe 21 12
123 East Wheal Seton 14 10 1280 Esgair Lli 14 4 4	256 Wheat Bleucowe 21 12 252 Wheat Catstock 9 20 2
248 Exmoor Wh. Eliza 6 6	2324 Wheal Calstock 9 20 2 268 Wheal Courtenay 124
248 Exmoor Wh. Eliza 6 6 494 Froucy Consols 40 4 1024 Freidd Liwydd Mines 14 3 4 4000 Gen. Mining Co. for Irel. 14 1 256 Gonamena 44 16 128 Gonvrea 4 2 256 Grambler & St. Aubyn 80 8 9 100 Great Consols 10000 120	256 Wheal Courtesay 124 125 15 15
4000 Gen. Mining Co.for Irel. 14 14	100 Wheal Henry 20
128 Goonvrea 2	1024 Wheal Lawrence 21 21 112 Wheal Margaret 79 225
	1024 Wheal Lawrence 23 23 112 Wheal Lawrence 79 225 612 Wheal Mary Ann 5 52 526 626 Wheal Mary Consols 604 8 8 860 Wheal Oak 6 5 Wheal Cake 6 5 6 6 6 6 6 6 6 6
512 Gt. Wh. Rough Tor Con. 184. 18 20 2000 Grown Slate Company . 5 5	360 Wheat Oak 6 5
256 Gwinear Consols 7	
6000 Heighsten Down Con 14 4 1 256 Herodsfoot 27 . 11 12	
10 000 Hibernian 124 13 239 Hobb's Hill 6 14	198 Wheat Seton 214 250 180 Wheat Sisters 354 5 494 Wheat Sophia 44 5 128 Wheat Spearne 10 68 7 128 Wheat Stann 30 35 550 Wheat Treasure 7 66 77 260 Wh.Tremaine(St.Ervan) 9 24 1024 Wheat Treumyne 9 3 3 4 92 Wheat Tremayne 9 3 3
1000 Holmbush 22 . 10 15 1536 Holne Park 2 . 2 4	494 Wheal Sophia 44 5
1536 Holne Park	128 Wheal St. Ann 30 35
2048 Lamherooe Wh. Maria 8 24	200 Wheal Trelawny 74 67 70
252 Lanarth Consols 4 128 Lelant Consols 90 40	1024 Wheal Tremayne 92 3 4
160 Levant	92 Wheal Tryphena
1000 Llwynmalees 8 8 81 3600 Llynvi Iron 50 50	256 Wheal Vlow (Perranz.)
253 Lostwithiel Consols 23 10	184 Wheal Vyvyan 60 250 Wheal Williams 283 8
5000 Mendip Hills 3 11 128 Metha 34	FOREIGN MINES.
20000 Mining Co of Iretured 7	5000 Alten Mining Company 141 . 21 15000 Asturian Mining Co 15 . 31 1
1280 Nant-y-cria	20000 Australian
100 North Pool 45 . 449 140 North Roskear 51 140	12374 Ditto Subscription 25 14 6000 Barossa Range 14 . 14
262 North Wh. Leisure 11 2	3000 Bolanos 120 1
256 North Wheal Basset 10 10 12 15000 Northern Coul Co 23 2	3000 Bolanos
15000 Northern Coal Co 23 2 128 Par Consols	12000 Cobre Copper Co 40 26 10000 Copiapo Mining Co 14 34 4 20000 General Mining Ass'ii. 20 14
1024 Penzance Consols 18s 3d 3	4000 Guadalcanal 5 71 a
200 Polsaith Consols 51 41	5000 Kinzigthal Mining Ass. 2 . 11
10000 Knyinney Iron 13	2000 Mexican & SouthAmer. 8 . 1 1
1000 Rosewall IIIII h	14 1 1 1 1 1 1 1 1 1
1000 Rosewall Hill 	7000 Royal Santiago 10 5 11000 St. John del Rey 159 10 13174 United Mexican Av. 28 1 3 3
9000 South Tamar	13174 United Mexican Av. 284 34 34
such corrections for our Share List as we	nts, or others interested, furnishing us with may not have received through our usual
channels of information—our object being,	to present as accurate a list of prices as can

be obtained—to procure which, we solicit the aid of correspondents in general.

	VULY 13, 1849.
Bar, bolt, & square, London. & per lon. Bar, bolt, & square, London. & 6 0 0 Nall rods	Pig
Swedish keg	Plates, warehousedper ton 15 0-15 10 Ditto, to arrivo
ENGLISH COPPER. d Sheets, sheathing, & bolts, p. ib. 0 0 9 Tough cakeper ton 79 10 0	English sheetper ton 24 0 0 QUICKSILVEROper lb. 0 3 2

GLASGOW, JULY 12.—The demand for pig-iron is still very limited, and the market orey inanimate. Holders, however, continue firm at 44s. 6d., cash, for ordinary brands, tree on board here. rery inanimate. If free on board here.

EXPORTATION OF THE PRECIOUS METALS.—The following are the official returns of the exports of gold and silver from the port of London for the last week:

Silver coin to Rotterdam, 2000 onness; to Belgium, 10,000; to Dunkirk, 5000.—Silver bars to Rotterdam, 30,000; to Belgium, 229,040; to Dunkirk, 150,000.—Gold coin to the Mauritius, 588 onness. CURRENT PRICE OF GOLD AND SILVER.

Foreign gold, in bars ... per oz. £3 17 9 | New dollars per oz. £6 4 16

"Portugal pieces... 0 0 0 | Silver in bars (standard) 0 4 116

IRONMASTERS' QUARTERLY MEETINGS.

WOLVERHAMPTON, JULY 11.—The Midsummer quarterly meetings of the from masters of South Staffordshire commenced at Walsall yesterday, and to-day there was an extremely numerous attendance of the trade at the Swan Hotel in this town. The preliminary meeting held at Hundsworth, a fortnight ago, prepared the public for a reduction of price. It is searcely necessary to say, that the nominal rate agreed upon at these meetings is not invariably to be relied upon. It is frequently violated in the first fortnight. Added to this, many heavy contracts are regulated by special agreements. The fall in the price of iron from the April meeting may, however, be fairly taken at between \$24\$, and \$3\$, per ton; and the probability is, that are long, if not during the present quarterly meetings, there will be a still further reduction. The fierce competition in Wales, and the continuation of the Danish blockade, produce most destructive effects upon the iron trade of South Staffordshire. Prices, as far as can be obtaine i, now ranges abiliows:—Sheets, 74, to 74, 10s.; hoops, 64, to 64. 10s.; merchant brands, 54, 10s. to 64. Some persons make the quotations a little higher, and others a triffs lower, but the above may be taken upon good authority as a fair average. The very heavy reduction which has taken place does not, according to accounts, materially increase orders. Purchasers, with the hope of a further fall, hold back. The home maket is, consequently, extremely dull; and it is needless to observe, that the state of Northern Europe has, for the present, almost entirely auspended our commercial intercourse with one of the largest and best markets for our from manufacture.

The workpeople in South Staffordshire bear the reduction of their wages with extreme good temper. They are no longer the tools of interested demagogues, but seem perfectly aware of the situation in which the ironmasters are placed. The proprietors of ironstone and coal have, in consideration of the present condition of the iron trade, reduced their rates of c

lation, and great hopes are entertained of increasing prosperity.

BIRMINGHAM, JULY 12.—The third meeting was held at Doe's Royal Hotel, at which there was a very numerous attendance of ironmasters, and a great number of buyers from various parts of England, and considerable interest was felt as to the effect of the late reduction in price. The meeting, however, assumed rather an anomalous character—that of one containing many buyers and no sales. The general impression amongst the buyers seemed to be, that a further reduction would take place, and orders were held back. There was, however, no disposition on the part of the masters to recede from the price recently agreed upon, and the meeting might be said to have closed without comparatively any sales having been effected.

LIVERPOOL, JULY 13.—There has been rather more business done this week, the de-nand having revived, with a tendency to an improvement in prices.

LEAD ORES.
TICKETINGS FOR ABOUT 100 TONS (20 cwts.) NEWTONARDS LEAD ORE.

Douglas, Isie of Man, July 7.

Thomas Somers - Bristol	********************	 £7 7.	0
Newton, Keates, and Co			
Sims, Willyams, and Co			
Walker, Parker, and Co	-Chester	 8 18	0

Ticketings at the White Horse Hotel, Holywell, July 12.

Talargoch-Maesgrerwddn		43	*****	£10	1	0	 Walker, Parker, & Co.
ditto				10	1	0	 J. P. Eyton.
Coeta Lys		.22	*****	10	2	6	 Newton, Keates, & Co.
Brynford Hall	** **	1	*****	10			Walker, Parker, & Co.
Hendre				9	15		
Parys Mine		2		8	0	0	
Fronfownog		100		9	11		
ditto Round		20	*****	11	18	0	 ditto
ditto ditto		15		11	18	0	 Eyton ; Mather ; Walker
Aberduno				9	10	0	 Newton, Keates, & Co.
Talacre				10	18	0	 J. P. Evton.
Deep Level (Halkin Mines)		50		9	9		Newton, Keates, & Co.
Maesysafn		50		9	7	6	
South Australia		60		12	1	0	
ditto		5		8	3		Walker, Parker, & Co.
The second secon		Sol	d at the	Mine			
East Wheal Rose		84	*****	£II	14	6	 Sime & Co
ditto		58	*****	19	3	6	 Penpoli Company.
ditto						0	 a supon company.

COPPER ORES.

	lons.			Pric	e.		Mines.	7bn		-	Pric
Carn Brea	. 102		£8	17	6		Par Consols	91		25	9
ditto	90	****	4	18	6		ditto	89		5	-
ditto	89	****	3	6	6		ditto	86		e	0
ditto	85	****	4	17	6		ditto	85		7	17
ditto	84		4	17	6		Levant	86	****	6	
ditto	82		9	16	0		ditto	80			
ditto	74		7	10	6		ditto	45	****		16
ditto	71		6	10	0		ditto	43	** **	.2	
ditto	69		4	8	0		West Wh. Treasury	87	****	17	15
ditto	59		10		6		ditto	86	****		3
ditto	58		6	1	o		3171. (D		****	5	- 1
ditto	. 51	***	5	9	0		Wh. Tremayne	73	****	3	8
ditto	40		1	18	6		ditto	40	****	. 1	8
Tywarnhayle	98		9	8	6			37	****	6	6
ditto	91		9	19	0		Wh. Agar	77	****	2	8
ditto	85		2	17	ñ		West Wh Bulley	37	****	7	13
ditto	60	****	7	10	6		West Wh. Buller	67	****	8	0
ditto	33		0	13	0		ditto	19		5	2
Nancekuke	36		7	11	0		Alfred Consols	22	****	1	12
ditto	13	****	7	0	0		ditto	8		5	10
unte	10		*		U			10	****	3	7
				TO	TAI	P	RODUCE.				
Carn Brea	954		€ 5	917	11	61	Wh. Tremayne 150			90	10

COMPANIES BY WHOM THE ORES WERE PURCHASED

The second secon				
10 m .	Tons.	Am	ount.	
Mines Royal	100	£ 436 1	7 0	
Vivian and Sons	593	3728	9 6	
Freeman and Co	388	2015	2 6	
Williams's Crown Copper Company	93	101	4 0	
Sims, Willyams, and Co	499	9006 1	7 9	
Williams, Foster, and Co	710	4688 1	6 3	
Schneider and Co	225	935 1	8 0	
Total tons	9538 4	19.012	- 0	

Copper ores for sale on Thursday next, at the Royal Hotel, Truro.—Mines and Parcels.—Devon Great Consols, Wheal Josiah, Wheal Maria, Wheal Fanny, and Wheal Anna Maria 1004 - West Caradon 337—Fowey Consols 232—Wheal Friendship 210—Poldice 134—Bedford United Mines 115—Wheal Maiden 34—Charlestown United Mines 34—Wheal Jewel 15.—Total quantity of ore to be sold, 2115 tons.
Copper ores for sale on Thursday week, at the Royal Hotel, Truro.—Mines and Parcels.—Consols Mines 708—United Mines 643—Treviskey 353—Tresavean 347—Par Consols 298—South Caradon 237—Trethelian 222—Wheal Comfort 200—Perran St. George 136—Wheal Mary Consols 125—South Tolgus 123—Grambler and St. Aubyn 77—Wheal Ellen 69—Treieigh Consols 63—Richards's ore 18—Wheal Tolgus 4.—Total, 3623 tons.

COPPER ORES

At SWANSEA, for sale July 26. —Berehaven 130, ditto 128, ditto 126, ditto 124, ditto 106, ditto 103.—Cobre 104, ditto 94, ditto 94, ditto 70, ditto 67, ditto 50, ditto 108.—Burns Burns 50, ditto 49, ditto 48, ditto 47, ditto 48, ditto 37, ditto 29.—Knockmahon 97, ditto 79.—Knockmahon 97, ditto 79.—Knockmahon 97, ditto 79.—Knockmahon 97, ditto 79.—Knockmahon 97, ditto 73.—Knockmahon 97, ditto 53, ditto 54.—Burns Burns 77.—Gascoyne Slag 60.—Holden Slag 57.—Lackmore 40, ditto 7.—Vine Slag 18, ditto 7.—Cronebane 2.—Tigrony 2.—Total, 2537 tons.

NOTICES TO CORRESPONDENTS.

*• We must impress upon our correspondents, the necessity of invariably furnishing us with their names and addresses—not that their communications should, consequently, be noticed, but as an earnest to us of their good faith. We have been compelled to postpone the continuation of our remarks on the Copper Trade; also the letter of "D." (Newcastle), on the Accumulation of Gas in the Roofs of Collieries—" A Practical Miner," on the Autionay and Silver-Lead Mining Company

of Collieries—" A Practical Miner," on the Antimony and Silver-Lead Mining Company
"Delta," on Copper Mining and Smelting—a paper on Crime in the Iron Districts.

"A Pottery Man,"—We are not aware to whom a private letter on the subject of the
Indian cobait blue can be addressed. Messrs. Schneider, and Messrs. Evans & Askin,
of Birmingham, are large dealers in cobait, and, probably, would be able to give your
some information on the subject. In our next we shall give a detailed description of
the country, and mode of operations pursued, at the Modum Cobait Works.

"A Secretary" (Cornhill).—The arms of South Australia are Britannia supporting herself
on the shield of Great Britain, extending her hand to a native armsed with a spear, reclining on a rock. A chart is published by George Becson, Aldine Chambers, Paternoster-row, containing statistical information, and encircled by the arms of the various
colonies.

colonies.

A. B."—STATISTICS OF LEAD AND TIN.—We have years since adopted your suggestion, but without effect; nor can we by any means arrive at the possibility of obtaining correct returns, as with copper ores. We do our utmost to approximate as near the trath as possible, and suppose we must be content.

T. S. H." (Clepham).—We are obliged to our correspondent for his suggestions, and quite agree with him as to the effect produced by the system he remarks on; but we do not think the publication of his letter would tend, in the slightest edgree, to remedy the evil. Mr. H. says, "that if Mr. Prideaux will state his questions on copper seasting to him, he will give all the information he possesses from long experimente, atthough he fears but little good will follow from their united theory and practice, insamuch as experiments, on a very extensive scale have already been made, conducted by the germins of a Phillips and a Faraday, without much practical benefit."

THE MINING JOURNAL Railway and Commercial Sazette.

LONDON, JULY 14, 1849.

The Government have again shown their strength, and expressed their determination as to the course they intend to pursue, to which the humble working miner and collier must needs bow, so must the ridows and orphans of those whose lives have been sacrificed; while the mother, with her orphan boy, has no hope held out that, were ahe to continue him in his employ underground, in case of his death arising from want of care, his sisters or herself perchance dependent in some respect on his earnings, would be thought of beyond the privilege she possesses of entering a poor law union; while those for whose wealth the lives of her husband and her child were sacrified minds with the sair terms of the lives of her husband and her child were sacrified. d mingle with the aristocracy, indulge in their pleasures, and d seats in the Houses of Lords or Commons, there to pass laws

which shall embrace every subject but that which humanity should dictate, and which it demands.

The bill introduced by Mr. Hume and Mr. Duncombe failed, and most certainly could not have been carried through in the form in which it was introduced; but it might have been modified and altered in committee. This, however, would not suit the Minister; and we accordingly find that Sir G. Grey intimates that the Government must oppose the measure, inasmuch that they have appointed two gentlements in inspect and report on the collient districts who are received.

accordingly find that Sir G. Green intimates that the Government must oppose the measure, inasmuch that they have appointed two gentlement to inspect and report on the colliery districts, who are required to reply to certain queries as to the cause of accidents, and to report on the remedies they would suggest—neither the one nor the other having any practical knowledge, but who must needs collate any information they may render from others, some of whom may possibly be parties interested in crushing all attempt at enquiry, or the introduction of any plan which has for its object the protection of the life of the working collier or miner.

Let Sir G. Green go into the colliery districts, let him go underground, or even let him hear the tales at surface from the working collier, or the widow who weeps over the loss of him who was her succour and help, and grieves that she has not the means of affording support to his children who are left. Let him, we say listen to the widow, to the orphan, to the voice of humanity, and not be deterred from doing his duty, a duty he owes to mankind, a duty to his country, to nobly and humanely represent the increasts of those who have made him "Secretary of State for the Home Devartment." We fear that the Home department too much occupies his atention, and that he cannot look far away, even although the limits should be the coal districts of England.

ention, and that he cannot look far away, even although the limits should be the coal districts of England.

We find that the honourable secretary is the representative of Northumberland. Here he is amidst the colliers; but we must not forget he is supported in the House of Commons by some 16 or 18 members, who are colliery owners; while his colleagues in the Upper House can number some eight or ten noble lords as colliery proprietors, and whose votes are too valuable to be trifled with, by bringing in, or even allowing a bill to go into committee which may affect their interests, those of the humbler lass having no claim or right to be represented, or thought of, in the Legislative Assembly. This, we think, solves the mystery of Sir G. Gren's opposition to any measure than that which emanates from the Ministry, and which we have no hesitation in saying has for its object canashing all and which we have no hesitation in saying has for its object quashing all naquiry. We would ask, who have the Government appointed to inspect, what is the time when the result of their labours may be made known, and what is to be the result? We have had Parliamentary Committees, and what is to be the result? We have had Parliamentary Committees, aspections, and reports without number—we had the report of the South Shields Committee; we have before us the weekly returns in our columns of the fearful loss of life; but of what avail this continuous and additional ridence? No, this will not suit the Government—they wish for prorastination; they appoint gentlemen incompetent for the office; and another one, two, or three years may, and doubtless will, pass away, with the acrifice of some 5000 lives, and then will something be done by the force of public opinion expressed. Ere the opportunity is afforded to the collier and miner to feel that Government will not do justice to the working nan, let the Minister well pause and reflect that the consequences of a trike for 24 hours, if general, would inflict injury to the extent of hunleds of thousands of pounds. We speak advisedly, and while the coalmaters laugh in their sleeves at the Ministerial measure, the working ollier at the moment looks on with disgust, and that spirit of apathy which results from the conviction with which he is impressed, that he has to friend. Let, then, the press stand forward as his supporter, and boldly ell the Minister, that he dare not meet the question. of friend. Let, then, the press stand to the question.

which results from the conviction with which he is impressed, that he has no friend. Let, then, the press stand forward as his supporter, and boldly ell the Minister, that he dare not meet the question.

We must not, however, allow our feelings to carry us away from notice of the proceedings in Parliament during the past week. It will be remembered that in our last, and preceding Number, we adverted to the introduction of a bill by Mr. Wyld, Member for Bodmin; and although we did not confidently roly on success being attendant on the proposed measure, ret we thought, on looking over the bill, so simple was it in its form, that twould, at least, have been referred to a committee. We do not, for a moment, say it was perfect, more especially those clauses proposed to be introduced in committee; but it was drawn with one object alone in view—that of a periodical inspection by practical men, and a power given to the local magistrates to act; and, viewing it in such light, was highly deserving of the consideration of the Legislature. But the Government, through their organ, Sir G. Gerl, said—such shall not be; we shall oppose the bill; and without a division it was negatived. This is all we have to say on this point; yet, we have not done with the question, and one other step will be taken, even by ourselves, in the course of the ensuing week, whereby the Hom. Secretary will, we have reason to believe, be called upon in his place in Parliament to declare that he will take upon himself the onus, and the odium, attached to his procrastinated and imperfect measure, or that he will allow of a bill being introduced which shall, at least, render it compulsory for his own agents to make reports within a given time, and that a committee be appointed to investigate the same. This, however, even if accomplished, will not remove or remedy the evil, for it is practical experience and knowledge alone that are required, and not merely theoretical dicta, which, we need hardly say, can never be effected, as the many instances to whi

who derive so large an amount annually from the dues imposed on coal coming into the Pool, which shall shame the Minister into an act of justice and humanity.

Since writing the foregoing, we have received the following re narks from an intelligent correspondent, with the spirit of which, it is, perhaps, needless to add, we entirely agree :-

The conduct of the present Government, with respect to the adoption of measures for the prevention of explosions and other awful accidents in coal mines, is exciting the utmost contempt and indignation throughout the colliery districts, both among owners and miners. Instead of coming nobly forward, as a paternal Government, anxious for the well-being and comfort of all classes, would and ought to do, with a measure founded on practical information, capable of being matured and carried out by experienced and able and ought to do, with a measure founded on practical information, capable of being matured and carried out by experienced and able men, they are using their patronage, and all the power they possess, to defeat those bumane and holy objects which all good men are auxiously striving to promote. Mr. WYLD's bill, which, as far as we can judge, was far less objectionable than that of Mr. Duncomme, has shared the same fate, and has been withdrawn under the disgracefully sham plea that their own inspectors have not yet made their report. If we are to wait for any satisfactory and useful report from Messrs. Phillips and Bakewell, even if assisted by the present commissioner, Mr. Taemenhere, coal-owners may rest satisfied that no inspecting invasion will ever disturb their territories, and the working collers, as a class, may consider themselves a proscribed race, undeserving the care or attention of their follow-men, and doomed to perish by hundreds as victims to the Moloch of patronage and Whiggism.

We again repeat that the appointment of Messrs. Pullips and Bakewell as colliery inspectors is a flagrant job; they are not practical colliers; they may be considered suicidal. We have had our say the those who are more intimately interested well weigh our words, and take the necessary steps for the benefit and security of themselves, their co-adventurers, and the working miner.

In our Journal of the 23d June we alluded to the improved prospects of the Alten Mines; at the same time, we expressed an anticipation—which the report published in our Journal of last week for the internal structure of the earth is useless in such a case, without years of practice in the mine, and in all the various ramifications in details,

of the internal structure of the earth is useless in such a case, without years of practice in the mine, and in all the various ramifications in details, and the extended appliances required under indefinitely varied circumstances, in the different colliery districts of the kingdom, where no two are alike. If the members of the Government who have had this immediate appointment wish to set themselves right with the public—even If these two gentlemen were recommended by the council of the Museum of Economic Geology, which we have been informed is the case—let them at once withdraw the appointment, and suffer the colliers' friends in Parliament to legislate on the subject, when, by the assistance of all the available practice of the country, a well organised plan of colliery inspection may be established and carried out with economy, and the most beneficial results to the country at large.

While we feel it our duty on one hand to censure, it is gratifying on the other to be able to say, that the steps being taken by Lord Wharnchitz and his committee on this subject are in the right direction; already several first-rate colliery viewers and practical and scientific men have been examined, not as to the causes of explosions—a farce which it appears to be the anxious desire of the Government to keep on the stage—but as to the best means to be adopted for the establishment of an efficient system of inspection, by which, as far as human agency can effect it, a check-may be put to those horrifying details of human destruction which weekly assail us from all directions.

We understand also that several intelligent butties and old experienced

us from all direction

us from all directions.

We understand, also, that several intelligent butties and old experienced working colliers have been summoned, whose explanations of underground working will, probably, prove of more value on such an occasion than volumes of scientific, geological, and chemical reports. We know that Mr. Tremenheere has been pupiling in the north under the eyos of one or two large conl-owners, but has carefully avoided the discussion of the question with any practical men. It is evidently the object of the Government to shirk the question for the more nurses of keeping this same bit of to shirk the question, for the more purpose of keeping this snug bit of patronage in their own hands; and we trust Lord WharnCleffe, and Mesers. Hume, Duncomer, Wild, Brotherfor, &c., after the three withdrawals of bills brought in by them under never-intended-to-be-fulfilled promises from the Government, will boldly stick to a new measure, and carry it through the Legislature, though in defiance of them.

The House of Commons, on Monday evening, went into committee on the Joint Stock Companies Winding up Amendment Act, when the Government, through their officer (the Solicitor-General) thought fit to introduce an addition to the first clause, which is to important, in more than one sense, to be allowed to pass by unno-The following is the clause in question :-

ticed. The following is the clause in question:—

"And that nothing in this Act, nor in any Act herein referred to, contained shall extend, or be construed to extend, to any partnership, association, or company formed for the working of mines on the principle commonly called the Cost-book Principle, within the said Stamarries and jirestifiction of the said court, unless the owner or owners of one-tenth in value of the shares in any such mine as shall appear on the cost-book, shall present a petition to the Lord Chancellor or to the Master of the Rolfs for the dissolution and winding-up, or for the winding up of the affairs of such company, which petities and theparties there, and the Acts herein referred to. And that on such petition being so presented, and the Acts herein referred to. And that on such petition being so presented, and notice thereof being given to the vice-warden by the party petitioning, the court of the said vice-warden, and the registrar and officers thereof, shall cease from enterstaining and dealing with any cause touching such mine, except so are as any be allowed and directed by order of the Court of Chancery, in regard to any ceases then or to be thereafter brought in the court of the said vice-warden, or in regardeto any proceeding to be taken in furtherance of the said petition, and the purposes of this Act and the Acts herein referred to, and that the said vice-warden and registrar, in taking such proceedings, shall have all the powers which any district commissioner of the Court of Bankruptey, and as in any manner which by virtue of this Act and the Acts herein referred to may be brought to fire a such as a support to faint a support to faint and the proceeding. The research is a support to faint a support to faint a support to faint and the Acts herein referred to may be brought to fore him."

The clause amended by the Soutcros-Generat was arrest to fafter some amount to the court to faint a support to faint and the Acts herein referred to faint a support to faint and the Acts here

The clause amended by the Solicition-General was agreed to (after some opposition from Mr. Travsia), on the understanding that the honourable and learned gentleman would add words to show that the Court of Chancery would only interfere in the dissolition of partnerships, as if a bill were filed in the itsual way.—De Translay eseming, on the question for taking into consideration of partnership, as if a bill were filed in the itsual way.—De Translay eseming, on the question for taking into consideration the amendments on this bill, Mr. Wild complained that the mining property of this country (except Cornwall) and of Socialand, was to be placed under the control of this Act. Its was surprised that a leavyer so celebrated as the Solicitor-General could have proposed such an exception. He hoped that a clause would be introduced into the bill strictly limiting the liability of shareholders. The bill, as it then stood, must have most injurious effects upon the interests of Cornwall.—The Solicitor-General said, that the question had been faily discussed on a previous occasion. It was quite open to the hon. Member to introduce a fresh clause on the next stage of the bill.—The somealments were then agreed to, and the third reading fixed for Monday next.

It will be well, then, to see what may be the effect of this clause as so introduced, and which, on the third reading, we suppose, so far as the Commons are concerned, will become law. How is it, we would ask, that Sir C. LEMON, Mr. H. WILLYAMS, and other Cornish Members present, were silent? Is such to be attributed to their desire to uphold the measures of the Government, at the cost of the miner and mine adventurer? sures of the Government, at the cost of the miner and mine adventurer? Forsooth, if such be the case, they must not reckon on the out adventurer to maintain their rents or royalties. The liberality, if such it may be called, partakes too much of a selfish character, and evinees a regardlessness of the interests of those whose bounden duty it is to protect, and who have been the means of returning them as Members of Parliament, and holding the high and important position in which they are placed. Let us, however, to the clause. In the first place, we contend that any interference with the Stannaries Coart is an infringement of its rights, and if that the present be admitted, then good bye to the protection which the adventurer claims and can sequre. Good bye to the old Cost book System; for once let the Government, through their legal and authorised, agent (the Soliciton-General), put foot within the threshold of the Vice-Warden's Court, supported by a majority of the Legislature, no matter of how few a number the "House" may be composed when the bill is smuggled through it, and, being passed, becomes a law with the tacic juncture of the Lords (although we hops Lord Falmourn, or some other noble lord, will stand up for the miner and miner adventurer), then we say the miners' protection is gone.

other noble lord, will stand up for the miner and miner adventurer), then we say the miners' protection is gone.

It is thus clear that, if any Act be passed whereby the Vice-Warden's Court, or the Cost-book System, be compromised by any of these amendment Acts, having reference solely to the Joint-Stock Companies' Registration Act, 7th and 8th Vice, c. 110, s. 63, such must be at variance with that last recited, and becomes an expost facto law, which at all times is objectionable, should, at least, be shown necessary for the protection of the public. Sich, however, is not the case; and we contend that, if any infringement, such as is contemplated by the bill before us, be carried into a law, it will be hard to foresee when those principles pertaining to the Cost-book System, and the Vice-Warden's Court, will not be prostrated. No security is afforded; and we think that it behoves every mine adventurer to protest against the introduction of the lawyer clause, which destroys the equity of our Vice-Warden's Court. Having said thus much on principle, we will at once take up the several points of the clause; and, assuming that no reason can be advanced to bring mines which were exempted in the particular Act referred to from the operation of the Joint-Stock Coverner. empired in the particular Act referred to from the operation of the John-Stock Companies' Registration, and, consequently, the Winding-up Acts, and all their amendments, under that now proposed, we would offer some few common sense suggestions to the law tactics and notions of the Solicitor-General; while we trust they will be impressed on him in the House in another form, where the miners' representatives are supposed

House in another form, where the hands represented and processes to have a voice.

We are told, nothing in the Act shall extend to any company formed for the working of mines on the principle commonly called the Cost-book Principle, within the jurisdiction of the Court of Stannaries, "unless the owner or owners of one-tenth in value of the shares, in any such mine as shall appear on the Cost-book, shall present a petition to the Lond Chancellon, or to the Master of the Rolls, for the dissolution and winding up of the affairs of such company." We refer to the exast words of the clause above recited, it being observed, however, that the closing words of this particular paragraph are—"Which petition, and the parties thereto, and all proceedings thereupon, shall be subject to the provisions of this Act, and the Acta herein referred to."

The next clause states, that on such petition being presented, and notice given to the warden and registrar, they shall cease from entertaining or dealing with any cause touching such mine, excepting such as may be allowed and ordered by the Court of Chancery. Such is the farce attempted

In our Journal of the 23d June we alluded to the improved prospects of the Alten Mines; at the same time, we expressed an anticipation—which the report published in our Journal of last week has corroborated—that under the new system of management a still further improvement of the capabilities of the property might be confidently looked for. We should not have adverted to this fact, had not a report reached us, that the favourable views we then expressed were written with the object of preparing the shareholders either for a proposal to subscribe fresh capital to the ulterior development of the old workings, or preparatory to a further call being made. If such is the intention of the directors, and we have heard nothing to assume that it is so, we can assure our readers that we are not so much in their confidence as to be aware of the plans they may think fit to adopt for the profitable working of their mines. Since the commencement of the Journal we have always acted independently, and, as such, most conductive to the interests of the mining community, whether its specutations be confined to our home mines, or more widely extended in developing those abroad. We have never allowed our columns to become a vehicle to encourage a traffic in shares, either for their exaltation or depression.

Nearly every mine, from natural causes, experiences periods of increase and decrease in its produces, and it would be extravagent to imagine

in developing those abroad. We have never allowed our columns to become a vehicle to encourage a traffic in shares, either for their exaltation or depression.

Nearly every mine, from natural causes, experiences periods of increase and decrease in its produce; and it would be extravagant to imagine that any property could be carried on for a series of years in a career of uninterrupted prosperity; consequently a proprietary who are liable (as in a serip company) to be constantly changing, view the establishment not from its real merits, but from the price they have purchased shares, and their market value, which, as we are all aware, is constantly varying.

Our aim has been to take a more extended view, and having watched the development of the different-properties, possessing means of obtaining the best and most authentic information from practical and scientific men, we are enabled confidently to give, in general, a correct and unbiassed opinion of their value—not as objects of traffic, but as mineral deposits. The shareholder, who purchases shares to-day, in general is not aware of the previous history of the mine, receives his information from the broker, who mostly can only inform him that the market price was higher or lower some few months since. If he has purchased at a low figure, he sells on a rise, and his interest in the mine cases. Our object has been, by keeping a faithful record of mining proceedings, to enable shareholders, through the medium of our columns, to obtain a correct view of the real value of the property they may embark in, so that they may not, from a temporary depreciation, abandon their interests, which in many cases lead to a suspension of the establishment, and its concomitant evils. By carefully watching the movements of mining companies, the development of their lodes, &e., expessing careless or nefarious management whenever it unfortunately occurs, we conceive we are deing our duty, and following out that system which appears most beneficial to the mining interest, from the d their best for the ultimate benefit of the shareholders. Where there is minon, there is strongth; and it needs no prophet to augur, a favourable result must, of necessity, be the consequence. We never allow ourselves to be misled by interested parties. Although we do not presume to infallibility, and on occasions our judgments may probably be erroneous, we feel the conviction that we endeavour to fulfill our duty as journalists fear-lessly, honestly, and conscientiously—"Nil conscients sibi nulla pallessere culpa."—conscious of the rectitude of our intentions, we do not swerve from the path which we have determined, since our commencement, understanding to follow. devintingly to follow.

In the House of Commons, on Wednesday evening last, Mr. Mac-KINNON moved that the House should go into committee on that precious piece of legislation, the SMORE PROMIBITION BILL, which was immediately opposed by Mr. Rosseck, on the ground that it would seriously interfere with the manufactures of this country. was immediately opposed by Mr. Robbuck, on the ground that it would seriously interfere with the manufactures of this country. His objection to the bill was, that the seience of combaction was not in that state that they could legislate in the belief that, in these manufactories the subject now of complaint, they could dispose of their own smoke. The mere statement of the facts connected with the case was sufficient to show that they were utterly unable to do so. It was very easy to say, only keep up a steady fire, and all that was consumable would be consumed; but he knew otherwise. He explained from his own knowledge of manufactories (and his observations were perfectly correct), that there were many manufacturers who, if this bill were passed into a law, must shut up their establishments, and turn hundreds of the working classes out of employment. Mesers. Copeland, Strickland, Bishen, Creatry, Spoones, and other practical and scientific members, opposed the bill, on the same grounds, and on the fact that, from the nature of the terms used in its drawing up, it never could be carried out. The motion was, however, carried by a majority of 19—83 to 64; the House west into committee accordingly, and, during the whole evening, it was found impossible to get through the first chase, on the definition of the term spaque smoke, which had been introduced by the crudite framers of the bill. The whole debate appears to have been a scene of fun and laughter, not without many feelings of compunction that the valuable time of the members should be wasted in the valuable smoke, said it was smoke that could not be seen through; if they did not define what the term actually meant, there would be endless disputes as to the proper construction of the Act.

Mr. Robbuck said, there neven had been smoke without many feelings of compunction that the valuable time of the members should be wasted in the valuable of the committee wish the word "opaque" means. Smoke, which might seen a secone through; if they did not define what the t

not to be seen through; if they did not define what the term actually meant, there would be endless disputes as to the proper construction of the Act.

Mr. Ricarbo said that the hon, gentleman had certainly not been successful in explaining to the committee what the word "opaque" meant. Simoke, which might seem opaque one moment, might not be so the next. He recollected when the famons Sugar-Bill was before the House there was a sample of each description of sugar produced before the committee. It, in like manner, the hon, gentleman smalle give them a sample of opaque smoke, they would be enabled at once to understand his meaning. (Laughter),—Hr. Rozsecox said that the deleterionness of smoke didnot arise from its opacity, or from the part which could not be burnt, but from the eactonic said gas evolved from it, which was in itself participly transparent at end of the top seventh of the country of the part which could not be seen; therefore, when the host gentlemen whiled to preventing opaque smoke.—Mr. C. P. VILLERS said that he found that a little further on in the bill the han, gentleman attempted to define opaque smoke as that which was not transparent at the point. (Laughter.) But he also progled that one witness should be deemed sufficient. If that were to be so, he. (Mr. V.) could not consiste anything more tempting to a poor working man in a manufacturing district than that be should be able to ge to a mannfacturer, and say that he had seen opaquis smoke eximing from his climmer, and if he did not agrees to his terms he should give information to the magistrates, and have him punished unise this. Act. Opaque smoke was the only moke that was mentioned in the bill, and there had been the greatest difficulty in giving a definition of it, every new attempt to define it only making the matter more opaque and cleudy than it was before. (A laugh.) Besides, how could no informer prove the issuing of noxious efficients from a tall chimmey, for he could not obtain possession of it and produce it. Why, it might be

Sir James Graham's observations were most appropriate, and evince much knowledge of the danger of interfering in the details of manufactures and commerce, and great anxiety for their success and uninterrupted progress. He assured the House that, had he been prosent, he should have voted with the minority against the bill; it had come down from the other House, and yet a bill more absurdly drawn it had never been his fortune to witness. He dwelt at some length on several of its absurdities, and showed, with Mr. Roebuck, that by the adoption of the improved machinery for preventing the unisance from opaque smoke, an efflurium had been produced of so noxious a character, that parties would be liable to prosecution for one misance, which they necessarily committed in at-

empting to avoid another. After much bantering, and with considerable reluctance on the part of Mr. Magneron, he at last consented to the adjournment of its further consideration for a fortnight—a proceeding, we trust, tantamount to throwing out the bill.

And this is another specimen of heriditary wisdom legislation, a further attempt at interference with subjects, the principles and importance of which they are entirely ignorant of, by a body of men who are a century behind the age, and invested with powers and privileges totally at variance with the spirit, the advancement, and the requirements of the times. It is further much to be regretted that, in a so-called liberal and enlightened House of Commons, a majority of 19 members out of 147 could be found for going into committee on such an irreconcilable piece of absurdity as this bill has proved to be. It is, however, evident, and we cannot but rejoice at the indication, that there appears sufficient common sense, as well as scientific knowledge, in what ought to be the people's house, to prevent the passing of a measure which would inflict a most injurious evil upon society, be a continual source of annoyance to manufacturing industry, and a feeculent hot bed for the protection of that peas of society, the common informer. We have ever been advocates for, and patronised to the extent of our humble powers, all inventions of a really scientific nature for the prevention of smoke; knowing, as now does every man who has to support a steam or other furnace, that the less dense smoke, consisting of masses of pure unconsumed carbon, his chimney emits, the more he saves in the consumption of fuel, and, therefore, scores of opportunities would continually occur, in which manufacturers would be robbed with impunity, under the working of so iniquitous a law as the one proposed.

From the report of the meeting of the proprietors of the Royal.

From the report of the meeting of the proprietors of the ROYAL SANTIAGO MINING COMPANY, which was held on Wednesday last, and given in another column, it will be seen that the misunderstand-Santiago Mining Company, which was held on Wednesday last, and given in another column, it will be seen that the misunderstanding, which has been in existence for so many years, between this and the Cobre Company is now under adjustment, and is expected shortly to terminate in an amicable settlement. This must be satisfactory news to the shareholders in both companies, more particularly the Santiago, who, from the commencement of the cause, have seen their works at a standstill, their subscribed capital unproductive, expensive liabilities incurred, and have individually been harrassed by that worst of all embarrassments—suspense, as to the termination of a Spanish lawsuit. This is another instance among many of the difficulties attending the profitable investment of capital for the purpose of working mines in distant foreign countries. It is bad enough not to be able to have the slightest personal knowledge of what workings are in progress on your own property, but entirely to depend on the honesty of agents, whom you must confide in, but cannot possibly control; but the evil becomes magnified to a most enormous extent when parties are reckless enough to rush into legal conflict in a Spanish colony, for the redress of some, perhaps, only imaginary grievance, and trust their property and their peace of mind to the tender mercies of the immaculate guardianship of the forensic worthies of the Havana, or the more delicate fingering of Madrid lawyers in case of an appeal—an almost certain event in protracted Spanish lawsuits.

We are glad that, so far, the differences, which have already cost the company 1200d, are likely to be settled, and shall be still more rejoiced to find the opinions of the chairman confirmed—that the Cobre Company have shown a disposition to promote their interests—that there was now a prospect that they would work one set of mines, and that company the other, in perfect good fellowship—and that the result will be the commencement of regular dividends at the next meeting.

We beg to call the

mencement of regular dividends at the next meeting.

We beg to call the attention of the working miners of England especially, and also of the labouring classes of this kingdom at large, to a statement made a few days since in Parliament, during a debate on the state of the nation, in which they are directly, if not criminally, interested. The part of the statement which concerns them is, that they pay annually about 10,000,000? sterling for ardent spirits, which it hurts their circumstances and their health to use at all; and, further, that they pay 4,000,000? for the remedy of diseases arising out of preventable causes. Now, we may assure our working friends, that we have no intention whatever of recommending total abstinence, because we think it only one degree better than total nonsense; but we must say, that an intemperate and extravagant indulgence in so vast a quantity of inflammatory and exciting liquors is a most ample cause of rain, in a double sense, to them and to their families. For them, to what good purpose is it that employment is plentiful and wages high, as they both occasionally are, if the surplus of their earnings takes so ruinous a direction, and results in so fatal a benefit. They complain of the difficulty of the times, when their own improvidence and want of sobriety punishes them ten times more severely than dulness of trade and low prices ever could punish them. Here is an expenditure, inexcusable and licentious, amounting to 14,000,000. A year, which ought to be laid out on the comfort of their cottage homes, and the education of their children, which is as good as thrown down a common sink, and lost in the great waste-tub of the nation. This sum is equal to the total value of the metallic produce of the United Kingdom, and is spent, not only to the present loss, but to the permanent injury of those who so foolishly dispossess themselves. We trust that not a great number of our mining inbourers are justly included in the terms of this accusation, and that their number, whatever it is

It is gratifying to be able to communicate the success attendant NANCEMURE MINES, referred to in a recent Number, and which have of late been carried on by the Duchy of Cornwall, whose province not being the working of mines, but content with the royalty reserved, had only taken up the setts, and extended their workings, from the desire of employing the mining community, rather than that the mines should have been abandoned, as in the case with Polberrow Consols: at the same time that the Duchy, by this course, brings the mines into an active state, so as to induce capitalists to embark, and whereby the employment of 800 or 850 persons. brings the mines into an active state, so as to induce capitalists to embark, and whereby the employment of 800 or \$50 persons, embracing probably 3200 to 3500 men, women, and children, for whom a subsistence is provided, it is to be observed, they also secure the royalty, which otherwise must have been sacrificed, had the working of the mines not been prosecuted. The authorities, having spent some thousands beyond the amount of purchase money given for the setts, with the engines, machinery, &c., have willingly consented to sacrifice a large portion of the capital employed, and to grant a lease at dues of 1-20th, which we recommend in times like the present to be adopted, and serve as a precedent, by other lords, more especially those who were the advocates and supporters of the free-trade system, as affects the introduction of foreign ores.

It is to be regretted, looking at the produce from our home mining districts, that a visible falling off has taken place, which we consider attributable to two causes—in the first instance, the monopoly and rapacity of the smelters, who, we understand, held their meeting in secret conclave this week, then to determine on what should be the price of copper to the consumer, and what should be the price they should give to the miner for

grable to two causes—in the smallers and, held their meeting in secret of the smelters, who, we understand, held their meeting in secret the his week, then to determine on what should be the price of copper to the onsumer, and what should be the price they should give to the miner for his ore—a little knot of half-a-dozen who preside over the metal market, as affects our copper trade and mines, and who, while they may be pointed as affects our copper trade and mines, and who, while they may be pointed as affects our copper trade and mines, and who, while they may be pointed to secon, knowing their power. With them "might is right," as affects our copper trade and mines, and who, while they may be pointed at, laugh all to scorn, knowing their power. With them "might is right;" and careless are they whether the mine adventurer gets a return for his capital, or the working miner a fair day's wages. They know that the lords get their dues; and while we find that, in the agricultural districts, the landlords reduce their rent roll in consequence of a falling off in the crop, or the state of the markets, we would ask, where is the instance that the lord of a mine comes forward to reduce his royalty or dues? There are some one or two solitary instances which we might adduce as exceptions to the general rule, and, we believe, the late Lord De DUNSTANVILLE may be held forth as one of those honourable and liberal men, leaving to our correspondents to cite other cases. It may be that our returns for the past few months have not been so great, arising from the reduction in the standard, and the policy observed in some few instances of withdrawing ores; in such case we would, however, ask, is not the effect that of reduction of labour, whether as regards the number emplowed, or the value attached to it? And would again further enquire, how has this reduction in the standard been brought about? The answer is simple, while is is

twofold—first, by the monopoly of the smelters; secondly, by the introduction of foreign ores, duty free.

In the case before us, we are glad to find that the officers of the duchy have humanely aided the working miner; they have willingly consented to a present loss, which we trust will be returned by increased and increasing dues, and they have granted liberal terms. The report stated that the monthly returns might be taken at 400 tons; we find the sale this week is 416 tons, producing 9000d, and the next month it is calculated that the quantity will be at least 450 tons. The falling off in our home mines will be seen from the returns in our last; and if we take the reduction at 820 tons of metallic copper for the past year, which would give, at 8 per cent., 10,250 tons of ore; which again taken at 5d. 2s. 6d. per ton, would show a reduction of 52,531d. 5s, per annum on the produce of our home mines; and, consequently, a reduction, in such proportion, of the labour employed, or the rate of payment.

Our object in the preceding remarks is not only to do justice to the Duchy of Cornwall, but to hold out to lords of mines (more especially those who are resident, too many of whom are too apt to secrifice the miner for political purposes) that if the mines be not protected and upheld, as in the case under notice, the working miner will be unemployed, unions must be built, poor law must be enforced, tents will not be forthcoming, mining industry will no longer be hailed as the source from whence the manufacturer, the merchant, the shopkeeper, the fisherman, the agriculturist, and the labouring classes, cau look for support; and hence the necessity, on the part of lords of mines, of generally acting on that liberal and lumane principle adopted by the Duchy of Cornwall—that of giving support to, and making sacrifices for, the working miner, with whose success, and that of the adventurer, they are so intimately associated.

LIFE ASSURANCE FOR THE MINING INTERESTS.

LIFE ASSURANCE FOR THE MINING INTERESTS. THE SEA, FIRE, AND LIFE ASSURANCE SOCIETY.

We refer our readers to our advertising columns of to-day, in which appea the prospectus of this institution, which was established with a view to meet the advancement of the age, and founded on liberal and, to the assured, highly advantageous principles: it was united with the Port of London Assurance Com

the prospectus of this institution, which was established with a view to meet the advancement of the age, and founded on liberal and, to the assured, highly advantageous principles: it was united with the Portof London Assurance Company, incorporated in 1847, and admitted to Lloyd's in Jan., 1848. Before proceeding to notice some of the more pointed advantages which will be found in the prospectus of this society, we would call attention to the fact that the Miners' and General Life Assurance Association, promoted by Mr. Alfred Burt, has merged in the one under notice, and forms a highly prominent feature in their business. Mr. Burt, whose work, On the Principles and Practice of Life Assurance, we favourably noticed in the Mining Journal of 16th June last, is now the actuary in the life department of this institution; and from his knowledge of the details and practice of this pecular department, will, we have no douly, not only secure to him the approbation of the gentlemen forming the executive of this respectable society, but greatly advance its prosperity, and produce the most advantageous results, both to the proprietary and the assured.

One simple and peculiarly satisfactory feature in this society is, that its capital is 100,000/L, in 1/L shares, without further call, or liability; but should it be required, the directors have the power, under the Deed of Settlement, to call a general meeting, for the purpose of raising further subscriptions, with the consent of the proprietors. A guaranteed interest of 5 per cent., payable half-yearly, is secured on this 100,000/L, irre aising further subscription, with the consent of the proprietors. A guaranteed interest of 5 per cent., payable half-yearly, is secured on this 100,000/L group of the department of this society with the province of our remarks, is established by persons connected with that large and influential body of individuals—the mining interest payable half-yearly, is excured on the 100,000/L group of the proprietors and deneral Assurance Associati

REED'S RAILWAY CHAIRS AND RAILS.

We sometime ago gave a description of these chairs in our Journal. Having wo of them now lodged in our office, we again have pleasure in referring to them, as we consider they are an improvement on the old chair. Simplicity of construction, economy, and durability, are the qualities they possess. The principle on which the chairs are formed is a lengthened bearing for the rail, calculated to prevent deflection, and give stability to it. Thus, the rail having a greater support from the chair, it is obvious that a lighter one may be used with safety. Both sleeper and block chair possess these advantages. With regard to the block chair, it is cast in one piece, and ready to be laid down as it comes from the foundry. At curves the opposite corresponding chairs are tied together, at certain distances, with iron rods, to preserve the gauge of the rail. The expense is little (if any) more than that of the wooden sleeper and chair, and has the great advantage of durability, whilst imber must inevitably deteriorate, and be relaid from end to end, every five or eight years, thereby incurring a great expense, besides needing constant attention of plate layers, which the block chair does not require.

We understand a license has been taken for the adoption of Mr. Reed's chairs and rails on one railway, and we subjoin the certificate of the Newcastle and Carlisle Railway engineer, on a portion of which line the chairs and rail have now been in use for upwards of two years:—

Sia,—In reply to your note respecting the rails and chairs which you desired to have tried on this railway. I have to say, that they have been in use for nearly 12 months—that they are very strong and substantial, and capable of carrying a tonnage of any extent, and answer well on firm ground, on which they were tried. The lap-joint rails, I think, cannot be exceeded—they are the best joints I have seen. Persea Targ, Engineer to the Newcastle and Carlisle Company, Newcastle-upon-Tyne.

S. Reed, Esq., Newcastle-on-Tyne. them, as we consider they are an improvement on the old chair. Simplicity of

PROGRESS OF MINING IN SPAIN .- During the past spring, a general improvement has taken place in mining operations throughout Spain provement has taken place in mining operations throughout Spain—the Government showing a landuble desire to promote to the utmost of their power mining enterprise. The admission of British machinery and mining apparatus, by the wise alteration in the tariff, in the past session, at a reasonable duty, has tended materially to extend adventures, and stimulate the investment of British and other capital. Several already projected railways will now be carried out; and that great drawback to mining enterprise, the absence of means of economical transit, will shortly no longer exist. The following is the official return from the engineer-in-chief of the quantities of silver raised from the following mines in the month of June:—Carmilia, 1728 ozs.; Encarnacion, 1731; Tros Amigos, 448; San Jose, 957; San Junn, 461; Virgen del Pillar, 482; Union, 1043; Concepcion, 478; San Jorge, 1690; Lezana Primera, 589; La Constante, 281; total, 9848 ounces. Several large mining speculations are projected, and are now in this country for the purpose of obtaining machinery and Cornish miners. The quantity of silver obtained from the mines of Sierra Almagreez, Murcia, and Guadalcajara, during May last, was 12,379 mcs., of 8 oza each.

CONTRACTS FOR COAL -On Wednesday next, the 18th inst., the con of the East India House will be ready to contract for 5000 tons of coal, to be delivered at Bombay. On the 24th inst., the Board of Admiralty will control for 4000 tons, to be delivered at Dover for the use of the mail steam-pack Also, on the same day, 5000 tons to Holybead, and 4500 tons to Kingsto

LAUNCH OF THE GENERAL SCREW STEAM SHIPPING COMPANY'S VESSEL, BOSPHORUS.

On Saturday afternoon last, another serew steam iron-wessel, destined to rebetween hiverpool and Constantinople, was launched from the extensive builting and iron-works of Messrs. Mare and Co., Blackwall. There were a number of distinguished persons present, amongst whom we noticed the Turki Ambassador and suite, Edward Zohrab, Esq. (the Ottoman Consul General Capt. Ford (of the Ottoman Steam Navy), James Laming, Esq. (managir director), Air. Clarke, Mr. Leary, Mr. Jos. Maudslay (the eminent enginess Mr. White (of Cowes), Mr. Campbell, C.E., Col. Wilson and lady, the Marqu of Lisbon, Viscount and Viscountess Moncorva, with the Baron and Miss Mocorva, Lady Morgan, Lady Blake, Milner Gibson, M.P., R. Baffour, Esq. (director) and large party of ladies and gentlemen.

Miss S. Zohrab, niece of the Turkish Consul, performed the ceremony naming the vessel, by throwing the customary bottle of wine at her bows, at naming her the Bosphorus, as she glided slowly and smoothly into her native element, amidst the cheers of all present; she rose most buoyantly, and as a settled on the water a little by the stern, she drew forth general admiratif for he beauty and symmetrical proportions, which are, in length between the perpendiculars 175 feet, breadth 25 feet, and depth 16 feet, making her burth in tons 580.

Subsecuely, the company adjourned to the Mould Loft, where they we On Saturday afternoon last, another serew steam iron-vessel, destined to

for he beauty and symmetrical proportions, which are, in length beauth in tons 530.

Subsequently the company adjourned to the Mould Loft, where they we very hansomely entertained by the principal of the firm. In drinking succe to the Bosphorus, a compilment was paid to his Excellency, the Turkish And basandor, who in reply expressed his satisfaction of what he had witnessed, at said he should feel much pleasure in promoting the interest of the company the utmost of his power.

The health of the pretty sponsor of the Bosphorus was then drank, and succession those of M. Zohrab, chairman of the General Screw Steam-Shippin (Company; Mr. James Laming, the managing director; Capt. Ford, the superintendent; Mr. Maudslay, the engineer; and Mr. Waterman, the architect. A very interesting conversation then took place on the merits of comments of the success of the screw propeller as applied to merchant vessels, and a meed of justice was rendered to Mr. Laming for his invaluable labours in working out the success of the screw propeller as applied the most are properly in the success of the screw propeller as applied the sextraordinary indefatigability, he fully realised the most anguine expectations of those connected with him in his enterprise. Upon these grounds was anticipated that, under the patronage and support of the Ottoman Government, the new undertaking of the General Screw Steam-Shipping Compan would prove a remunerative investment.

The Bosphorus, after she was launched, was immediately towed round to the East India Docks, there to receive her engines, which are 80-horse power, an she is to be fitted with all despatch; and two sister ships, the Hollegoo (which will be shortly launched) and another, are building by Messra. Mas and Co. for the same service, the company being satisfied that, in the Bosphorus and well-built ship for the purpose required.

STEAM NAVIGATION ON THE INDIAN RIVERS.*

STEAM NAVIGATION ON THE INDIAN RIVERS.*

Although, through the possibility of internal connection by means of its rivers India has a practicable mode of navigable communication equal to any country in the world, if scientifically made available, the shoals and quicksands the shallow and continually shifting nature of most of its waters, have hither to been a bar to any continuous and regular transit. Mr. Bourne, whose valuable work on the steam-engine we noticed in the first Number of the Hining Journal of the present year, has just returned from India, and published a report, illustrating the practicability of opening up the internal communication of that country at a comparatively neonsiderable outlay, by the introduction of steam-vessels of peculiar construction on the large rivers which flow from the interior to the coast, whereby a ready outlet would be afforded for the cotton and other valuable products of Central India, and an equally eligible inclet afforded for British manufactures. There can be no doubt but that the possession of the Purplaule could be rendered much more advantageous by making the Indias navigable into the very heart of its territories; and the author of this report clearly points out how this may be most economically of fected. The Ganges is the only river upon which it has hitherto been found practicable to establish steam-vessels for commercial purposes; and even on this river, steamers cannot ascend higher than Allalabad, midway between Calcutta and Delhi, at the confluence of the Juana and Ganges. They are unable to run during the night, lest they might get on the shoals, from which removal would be difficult; and the progress made is not more than 50 or 60 miles per day. Notwithstanding every precaution, the vessels are perpetually getting aground, and often remaining there for days and weeks together, naturally causing a vast deal of delay and expense. The opinion of Mr. Bourne is, that a great river like the Ganges, full of shoals and quicksands, and perpetually enablet og et Although, through the possibility of internal connection by means of its river India has a practicable mode of navigable communication equal to any coun-

Malleable Iron Screw Propellers.—It has hitherto been usual to make screw propellers of brass or cast-iron, which, on any imperfection taking place in them, or any difference in form being considered advisable, have to be cut down and recast. An experiment is now in progress in the factory at Woolwich Dockyard to make screw propellers of malleable iron, to obviate these inconveniences, and no doubt is entertained of its success. The screw propeller at present in course of formation, and making of malleable iron by the aid of one of Nasmyth's hammers, has had one of its flanges and the centre completely formed, and when the other flange is fully added, will weigh 2½ tons, or 50 cwts. When dressed and finished for use, it is calculated it will weigh 35 cwts, and will be 12 feet 8 inches in diameter, the greatest breadth of the extremity of the flanges being about 6 feet. The foremen and workmen engaged in making the malleable iron screw propeller have shown great ingenuity in overcoming the difficulty of giving the enrved form to the flanges with a flat faced hammer, prasenting a surface of 10 by 8 inches. This they have completely effected, by placing a small prece of iron attached to a long rod betwixt the face of the hammer and the flange, so as to give it the requisite curve with the greatest case.

placing a small piece of iron attached to a long rod betwixt the lace of the hammer and the flange, so as to give it the requisite curve with the greatest case.

IMPORTANT TO BUILDERS.—Mr. George Nasmyth, has discovered that the strain hitherto applied to the bow and string principle is incorrect, and that it should be upon the cord or string, and a uniform pressure on the top of the bow, and hearing on the case. In this manner weights are sustained of immense magnitude, and the discovery will place it in the power of engineers, architects, and builders to construct public editices, bridges, and warehouses of a span never yet attained, or even meditated.

Immixes Wire Rope.—A wire rope, 3½ inches in diameter, 10 inches in ci cumference, and 500 feet long, has been manufactured by R. S. Newall and Co of the Teams. It is, we believe, the largest wire rops that has ever been mad The weight is 90 lb per fathom. Its destination is India—where, it is suppose it will be used in the construction of a wire-rope bridge.—Gateshead Observe

CAUTION TO CORE DEALERS.—A few days since a large fire occurred at Salisbury, from the apontaneous combustion of a large pile of cork, said to have taken place from the intensity of the sun's rays. Although an atmosphere at a high temperature, and very dry, would be favourable to such combustion, it is probable that cork, like many other carbonaceous matters, may have a tendency to ignition by two close packing in large quantities. It would be better, therefore, that it should be always stacked in such a way as to allow the air to pass through the mass.

Original Correspondence.

IMPROVEMENTS IN SMELTING COPPER.

In Sullitude Colling a portion of the lion of a patent in which I have an interest. It is, however, open to the same as Mr. Low's (see your correspondent, "Germanicas"); it does not stall explain re of the invention; and is, moreover, calculated to convey an erroneous idea of sail along the invention; and is, moreover, calculated to convey an erroneous idea of sail along there. In order, however, that the parties concerned in the matter may r, or the public be misled, I beg to forward you a more detailed account of the parties of the control of the public be misled, I beg to forward you a more detailed account of the silvent of the control of the public be misled, I beg to forward you a more detailed account of the strong prefer to employ a furnace in which atmospheric air is admitted at the r at the sides, which kind of furnace is now in common use, and was protected a patent granted to a Mr. Sheffield.—John Mitchell July 9.]

This invention consists of improvements in obtaining metallic copper a certain copper ores, and other substances containing copper.

This invention consists of improvements in obtaining metallic copper on certain copper ores, and other substances containing copper. The betances which are intended to be treated by the methods to be described co—1. The sulphurets of copper.—2. The sulphurets of copper, mixed it any other metallic sulphuret or sulphurets.—3. A sulphuret of cop-r, containing a sulphate or other salt of copper,—4. A sulphuret of cop-r, mixed with any other metallic sulphuret or sulphurets, containing a liphate or other salt of copper.—5. Carbonates or oxides of copper—or, A mixture of carbonate and oxide of copper, containing a sulphuret of pper, or a sulphuret of copper mixed with other metallic sulphurets.

8. A mixture of any of the above carbonates or oxides, or carbonates do oxides, with a metallic sulphuret or sulphurets, and a sulphate or other it of copper, mixed with a sulphate or other alt of copper, mixed with a sulphate or other alt of copper, mixed with a sulphate or other alt of copper, mixed with a sulphate or other alt of copper, mixed with a sulphate or other sulphurets, and a sulphate or other alt of copper, mixed with a sulphate or other sulphurets, and a sulphate or other sulphurets, and a sulphate or other sulphurets, and a sulphate or other to other or other to other or other sulphurets, and a sulphate or other to other or other

herefore, have to be refined, in order to fit it for the market. This the batentees also avoid, by forming silicates of copper and iron, and then relucing by carbonaceous matter. The silicate of copper is completely reluced, whilst the silicate of iron is left intact.

Owing to the influence of the presence of lime, baryta, strontia, and nagnesis (more especially the latter earth), on the roasting process, the atentees divide all copper ores, and other substances enumerated as suspetible of treatment by the present process, into two grand classes; thus—First Class.—Those ores or substances containing neither lime, baryta, trontia, or magnesia in the caustic or carbonated state, or in the state of sulphate.

Second Class.—Those ores and substances which contain lime, aryta, strontia, or magnesia (more especially the latter), in the caustic or arbonated state, or in the state of sulphate.

The patentees subdivide each of the preceding classes into two orders:—Order First.—Those ores and substances which contain more than 25 er cent. of copper. Order Second.—Those ores and substances which contain less than 25 per cent. of copper.

All ores and other substances enumerated as susceptible of treatment by

Order First.—Those ores and substances which contain more than 25 per cent. of copper. Order Second.—Those ores and substances which contain less than 25 per cent. of copper.

All ores and other substances enumerated as susceptible of treatment by the present process, and which belong to class 1, may be treated according to the process No. 1.—Treatment of Copper Ores of the First Class.—The finely pulverised (fine dressed) ore is placed in a reverberatory furnace, known as a "calciner" (a furnace constructed according to Sheffield's patent, having air passing through openings in the bridge, &c., over the roasting ore in the furnace, is preferred), and exposed to a gradually increasing temperature, until it arrives at a full red heat. During the whole of the time it is in the furnace it is stirred from side to side, and from end to end, in order to expose the greatest possible surface to the oxidating action of the heated atmospheric air passing over the roasting matter. This is to be continued until the ore ceases to smell of sulphurons acid. The heat is now to be increased as much as possible, taking care, however, that the heated ore does not in the slightest degree agglutinate (this point must be particularly attended to), the stirring all this time being constant. The object of the increased heat is the decomposition of the sulphate of copper formed during the earlier stage of the roasting. At the higher temperature this salt is decomposed, and its acid expelled—this may be facilitated by the addition of small quantities of any carbonaceous matter, as is already known. After it has been in this state about half an hour, a sample is to be taken out, mixed with a small quantity of water, and well stirred, allowed to settle, and the clear supernatant liquid poured off. If, on the addition of solution of ammonia, the liquid assumes a blue tint, or, on the addition of solution of ammonia, the liquid assumes a blue tint, or, on the addition of percentage of the formation of the sulphate of magnesia which has for

lowed to drain as much as possible; it is then removed and dried, and is fit for the reducing process.

In case, however, the ore contains less than 25 per cent. of copper, it is thrown into a fusion, or "metal," farnace, with a certain quantity of lime or old slag, and the regulus so produced is ran into sand moulds, or into water; but the patentees prefer to give the ore a partial roasting before forming a regulus, as in the following process:

The finely powdered (fine dressed) ore is placed in the furnace ("calciner") already described, and exposed to a dull red heat, until very little or no more sulphurous acid can be smelt. The ore is then removed to auother reverberatory furnace, known as a fusion or metal furnace, and

mixed with an appropriate quantity of lime, or lime and old slag, to form a fluid mixture when exposed to a sufficient temperature. When the whole is well fused, the furnace is tapped, and the regulus run into either sand moulds or water. The regulus produced by either of the preceding methods is reduced to a state of fine division, and in this state is roasted exactly as described for ores and substances class 1, process 1, after which it is ready for reducing.

it is ready for reducing.

Reducing Process.—The roasted ore, or regulus, is mixed with such a proportion of sand as will correspond to the amount of oxide of copper and oxide of iron in the substance. Thus, for a matter containing about 88 per cent. of oxide of copper and the remainder oxide of iron, from 35 88 per cent. of oxide of copper and the remainder oxide of iron, from 35 to 40 per cent. of sand are required, with a sufficient quantity of lime or old slag as will cause the whole to flow freely. On adding the sand and lime, or the sand and slag, coal or other carbonaceous matter is to be added, in proportion of about to 6 the weight of the sand and lime, or sand and slag. When the whole is well fused, coal or other carbonaceous matter is to be added to the fused mass, and well stirred together; the heat is then to be increased for a short time, and the whole well stirred again. A portion of the slag is to be taken out, and examined by any method for copper; if but traces be present the operation is finished, and the furnaceous matter must be added, and the mass must be again stirred, and so on until the slag is nearly free from copper, as above.

We claim the obtaining metallic copper from the ores, &c., of that metal by the processes hereinbefore described—viz.:

1. By effectually separating the sulphur from the metal by roasting, in

by the processes hereinbefore described—viz.:

1. By effectually separating the sulphur from the metal by roasting, in the manner described under process 1, and by roasting and washing, as described under process 2; and when the ore is poor, by forming a regulus without the use of iron and alkali, and subsequently roasting, as is described under process 2.

described under process 2.

2. By separating the iron from the mixed oxides resulting from the roasting processes, by the employment of siliceous and carbonaceous matters, as above described, for the purpose of obtaining the copper contained in such oxides in a pure state.

IMPROVEMENTS IN SMELTING COPPER.

SIR,—"Germanicus" states, in your last Number, that openings have been used of all kinds in farnaces, and that the patent of Mr. Low, specified 28th June, possesses nothing new. Will he do himself the justice to say in what works in England or Wales, and at what period, openings have been used, with the same object as by Low—viz. : to introduce a current of air upon the surface of the materials in fusion, by means of independent appartures to those that pass through the fire, and over the bridge dependant apertures to those that pass through the fire, and over the bridge of the furnace. I am aware they have been introduced to meet the flame near the bridge to effect a more perfect combustion of the products of the fuel, but let him show they have been directly used with the view to facilitate the oxidation of the sulphur compounds while in a state of fusion. I do not like that class of individuals who give no credit to others, but who are ever forward to deny a fair meed of praise where it is due.

July 13.

J. R.

ANTHRACITE COAL-COMPOSITION FUELS.

July 13.

ANTHRACITE COAL—COMPOSITION FUELS.

SIR,—I have read your correspondent's ("Carbon's") letter; and, being a proprietor of anthracite coal, must correct an error he appears to have fallen into—in stating that the quantity of the best coal worked, or capable of being worked, is barely sufficient to supply the demand for malting and hop-drying. Of course, the workers do not wish to overstock the markets, for this reason. I could point out to him collieries, producing the best coal, only working a tithe of what they could. As to there not being any quantity available for steam navigation, I could also point out to him, at the head of the Amman Valley, hundreds of acres of first-quality coal—the vein ranging near upon 5 ft. thick, yet untouched; and I still think that Mr. Leighton (whose opinions, by the way, are quite unchanged) will, if he lives a few years, see his ideas, as to its use for steam navigation, carried out. For our war steamers, in war time, I can see nothing better fitted, doing away, as his plan does, with such an obvious mark as a funnel—the loss of which, with ordinary coal, might be attended with the loss of the vessel. The Duke of Portland, in his late letters to the Times, quotes Sir W. Symond's opinion on this point, making the danger of the loss of funnel a reason why a war steamer is not suited to close action. Your correspondent's remarks, as to the sulphurous nature of some veins, are quite true; therefore buyers should not, for the sake of a few shillings, purchase an inferior article, especially when it is to be used for any household purposes.

The reasons the better sorts of stone coal are not used in blast-furnaces are, too high cost; and, from their hardness, they crepitate, and form too much dust, as, according to the present plan of furnaces, the coal is thrown right into almost the hottest place—the top of the furnace—where the gases meeting the air ignite. As to composition fuel, some trials have lately been made by Warlich's Fuel Company using the small of the best an

ANTHRACITE COAL-COMPOSITION FUELS.

-I admit the justness of some of "Carbon's" surmises. The vious character of the finest anthracite coal is the great obstacle to its use treous character of the finest anthracite coal is the great obstacle to its use for smelting iron in blast-furnaces of the present construction. This substance is a very slow conductor of heat. When thrown at once into the burning gases at the open top of a furnace, the surface heats while the interior is still cold; the surface expands, and shivers off in small particles, presenting a fresh surface to shiver off as the former, and so on until the lump of coal is reduced to powder, and the coal having no binding property at all, it remains in that state, so blocking up the furnace. Some years since I contrived a cupola for melting iron with anthracite, on a new construction. In a former letter I referred to a transaction at the Gwendraeth Works, in connection with it and the South Wales Anthracite Association. Had that plan met with encouragement, instead of being, as it was, stifled by intrigue, an improved mode of smelting, adapted to the peculiarities and to the development of the extraordinary powers of anthracite coal, would long since have been in successful operation. I have devised different modifications of the principle of the cupola just referred to for smelting, but as these would all come under Player's patent, which will expire in a couple of years, as the prospects of the iron manufacture are at present gloomy, and as I have no immediate prospect of an opportunity for carrying this successfully out, I will hold my plans in abeyance, ready to take advantage of more favourable circumstances. The poorer veins of anthracite possess but little of this vitreous character, so that the coal bears the heat botter, but the quantity of earthy matter, as to render it incombustible, and, at the same time, infusible—nothing but dint of labour in poking and shovelling out can keep an anthracite for which a body of flame is always issuing, attended, unquestionably, with great waste of heat and fuel. The best mode of using anthracite for smelting iron in furnaces of the present construction is to grind the culm, for smelting iron in blast-furnaces of the present construction. This substance is a very slow conductor of heat. When thrown at once into

me to use a blast with anthracite, and apply the heat of the bar to generate steam, with the view of increasing the gaseous action of the fire. This grate has a most extraordinary property of retaining the small of any coal, which will not bind in the fire, until all combustible matter is made use of. There is another remarkable circumstance attending the use of this grate. I found that a fire of small culm produced a much more intense heat than a fire of good sized pieces of coal, which I think may be satisfactorily accounted for. Anthracite coal burns only, and gives out heat, at the surface. Let us suppose a cubic foot of coal in one piece ignited; heat is given off from 6 square feet of surface, but break a cubic foot of coal into 1728 cubic inches, each would present 6 inches, and in the aggregate 72 square feet of ignited surface, or 12 times as much as in the one piece of a cubic foot. An attempt has been made to substitute steam for the water grate; but, although the results are, in every respect, similar, the effect is not equal in intensity of action, for which I cannot satisfactorily account. An improved system of coking seems on the eve of being introduced, which, in connection with compression, will prove, as "Carbon," terms it, the ne plus ultra in the preparation of fuel. I used to ridicule the idea of preparing composition fuels, but have latterly become a convert to a sense of its importance. The peculiarities of the Pembrokeshire anthracite attracted my notice long ago, and I shall intrude a little further, to state a theory by which I have endeavoured to account for the absence of pyrites, and the extraordinary vitreous structure of the coal. These beds of coal lie low, and are in the immediate vicinity of the sea, having Carmarthen Bay on one side, and Milford Haven on the other, the coal might thus be exposed, while hot, to the action of salt; this and pyrites would mutually decompose each other; chlorine and iron form a volatile body; the iron would thus pass off in vapour, while the sodiu of non-caking or free-burning coal, would form a very good artificial an-thracite.—T. H. LEIGHTON: July 9.

ON THE APPOINTMENT OF GOVERNMENT COMMISSIONERS.

ON THE APPOINTMENT OF GOVERNMENT COMMISSIONERS. Str.—I have no doubt that you sympathise with me, and with all well-wishers to the mining interest, upon the defeat of Mr. Wyld's very sensible and unobjectionable bill, which was neither more nor less than to carry out the advice and reports of the Government commissioners who examined numerous collieries after recent dreadful explosions. And what is the pretext for this conduct?—viz.: that their own commissioners, appointed a fortnight ago, have not made their report. Why, Sir, the same excuse will equally apply for many sessions to come. Two commissioners, wholly unacquainted with practical mining, are sent to report upon what is right and what is wrong in the various complicated machinery of mining, the usages in one district totally varying from those of others, to unravel which would require the most proficient of colliery viewers, who might, indeed, weigh the reasons for and against each variety of practice, but not without laborious underground inspection, and the sagacious noting down of all the leading and especial circumstances—such colliery viewer having already qualified himself by scientific attainments, and by the laborious practice of his profession during many years. It is of no use mineing the matter, for his profession during many years. It is of no use mineing the matter, for by no other description of person is the subject capable of being satisfac-

his profession during many years. It is of no use miniming the matter, by no other description of person is the subject capable of being satisfactorily reported upon.

The universal outery of persons, both owners and workmen, is against the employment of the scientific and theoretic as inspectors; but, in the present case, the fears of the owners are set at rest by the understanding that their appointment means nothing else but a go-by to the stirring of these bills; for whatever be the result of the report of the Lords, still the inspectors will not have completed their investigation; and this will serve each succeeding session, unless the mining population band themselves together, and heap petition upon petition from all parts of the kingdom. But if, in the meantime, the needless destruction of human life progresses, as it has done of late years, does there no responsibility attach to persons in power? Undoubtedly there does; and although they possess the privilege of silencing earthly tribunals, they will, nevertheless, be made accountable to a tribunal elsewhere, if their conduct upon this occasion has the effect (which is undoubted) of immolating human beings at the shrine of private influence or unjustifiable obstinacy.

It is to be hoped that you will continue your watehfulness over the circumstances which are developed at each succeeding inquest, and endeavour continuously to force the subject upon the public attention, so that, in the very beginning of next session, it may be brought forward in the most formidable manner, and so consummate the desired object.

July 12.

REMARKS UPON MINING.

SIR,—It is evident that your correspondent, Mr. Farley, is practically unacquainted with mining operations, or Le would not have given publicity to such suggestions as appeared in the *Mining Journal* last week. I will, with your permission, make a few friendly remarks upon his letter. I was not before aware of any exclusiveness in mining operations existing in this district. Can there be anything hidden, or kept secret, when ground builting are continually going into nits managed by other ground.

will, with your permission, make a few friendly remarks upon in letter. I was not before aware of any exclusiveness in mining operations existing in this district. Can there be anything hidden, or kept secret, when ground bailiffs are continually going into pits managed by other ground bailiffs—butties are often changing collieries and masters, and plenty of miners, that have worked in nearly all the pits in the district?

As to Government inspectors, I am of opinion that, if men of practical experience were appointed, they would be of advantage to the proprietor of mines; and the miner would have no objection to them paying attention to his safety. No person can tell at the commencement of a colliery what difficulties there are to contend against; therefore, it is utterly impossible to map out, or show how the mines will be worked or ventilated. He must first prove and examine his mine, and then shape his workings accordingly. As it respects the explosion at Friary Colliery, I believe it was satisfactorily proved to the jury at the coroner's inquest that there was sufficient air to ventilate the whole of the workings in the pit. The gas accumulated in the side of work where the explosion took place, in consequence of the air coming out of the head too soon—that is, the air escaped through, or over the dam, in the spout, and passed on to venilate the other workings in the pit, leaving a part of the side of work beyond this spout without air, and here the gas lodged which caused the explosion. Had the dam been securely put in, the air would have been forced through another spout that was open, within a few feet of the stall face; had this been the case, the accident would not have occurred.

If Mr. Farley will explain to the proprietors of mines how they can draw as much out of a pit 3 or 4 ft. diameter, as one 7 ft., I have no doubt they will be much obliged to him, as it is evident that pits are not sank 7 ft. diameter for ventilating purposes only. Again, there is great danger in having an excessive quantity

LIGHTHOUSE ON THE GODWIN SANDS.

LIGHTHOUSE ON THE GODWIN SANDS.

Sir,—It appears from an announcement in the Times, that another attempt is about being made to crect a beacon on the Godwin Sands, by piercing through the sand with small tubes, with the view of ascertaining their entire depth. The Mining Journal can attest that, in 1847, I was the first person who proposed to penetrate through these sands to the entire depth, and in the solid formation lay the foundation for a lighthouse, capable of resisting any storm. It is well known that I prepared "plans and sections" of the structure I proposed; and that these plans received the approbation of the highest engineering authority of London. These plans I laid before the Elder Brethren of the Trinity House, who, after some inquiries, stated that "they did not require any lighthouse on the Godwin Sands;" but the hon. secretary took care to detain the paper descriptive of my plans and project. The plans and sections I also exhibited before the members of the Royal Society, and other scientific personages, at the soires given by the late president, the Marquis of Northampton; the project was by all parties there approved of. From these repeated attempts on the part of the Trinity House to arect a beacon on the Godwin

for of the structure of pate: corn vario fect a simpl

nent if succ dinary Sands, it is quite evident that a lighthouse is requisite; and on the plans of operation I proposed to pursue, a substantial lighthouse, which would resist every storm, might be erected for about 20,000l, or at a cost less than that sustained by the shipping interest—say nothing of the loss of life—during the last year. But from what I can learn of the present attempt, and if it is the actual desire of the Trinity House to ascertain the depth of these sands and the nature of the formation below, why not sink, instead of a tube 2 ft. diameter, a cylinder of from 6 to 7 ft. diameter? When the cylinder has been forced through the sand as far as practicable by pneumatic pressure, the sand could then be taken out, and the nature of the strata below minutely examined, and operations for the erection of a lighthouse commenced accordingly, instead of squandering away public money with useless experiments.

G. Shepherd, C.E.

Plymouth, July 9.

SOLUBILITY OF LEAD IN WATER.

SOLUBILITY OF LEAD IN WATER.

SIR,—I was never so struck with the solubility of lead in water, and other fluids, as the other day, Having occasion for a large and regular supply of distilled water, I had fitted up a new still after my own method, with worm conductor, the pipe being made wholly of new lead. The apparatus being fitted and adjusted, the first portion came over perfectly bright and clear; but on taking it to pieces to refit, the next portion deposited an abundant white precipitate, which was thought to be produced by the steam cleaning out the pipe. It was accordingly taken to pieces, examined, fitted, and re-adjusted, the precipitate still forming. I was then induced to apply the usual lead tests to a portion of the distilled water, and, to my great astonishment, found it to be strongly impregnated, and that, too, in so short a time, and under circumstances apparently unaccountable. So convinced was I of the danger likely to result from the use of leaden pipes and vessels, that I immediately had the lead pipe replaced by one made of alloy metal, which produced very different results, as the water now came over absolutely pure. Whilst upon the subject of contamination of liquids by metals, more particularly lead, I might mention a circumstance which occurred to an individual who consulted me on the matter. It appears that gentleman was in the habit of drinking a glass of Seltzer-water, with a little brandy in it; this time, on the butlet drawing the cork, and mixing the water with the brandy, a brownish black colour was instantly developed, with the exhalation of sulphuretted hydrogen gas, clearly showing that instead of Seltzer-water it was Harrowgate-water; and, moreover, it showed that the brandy itself was impregnated with metallic matter, and that, too, probably under similar circumstances as the distilled water before alluded to; hence the necessity which exists for the exclusion of lead in a pure, unalloyed, uncombined state, for pipes, pumps, and vessels generally, on account of its easy solubility. J. Horseley.

CALCAREOUS DEPOSIT IN WATER.

CALCAREOUS DEPOSIT IN WATER.

SIR,—Observing occasionally communications in your valuable paper on this subject, and having noticed that Mr. Horsley, of the Isle of Wight, has taken out a patent for a chemico-mechanical arrangement, whereby the impurities of water generally can be eradicated, I am induced to request the insertion of these few lines on the subject. I have a well 500 ft. deep in the London clay, producing an ample supply of water, and of which my occupation requires from 10,000 to 20,000 gallons daily. It would do me much service to be informed of a simple and efficacious manner to render this water what is termed soft, although at present it is far superior in that respect to the generality of spring water. I should feel greatly obliged to any of your correspondents for the desired information; and perhaps Mr. Horsley will inform me, through your columns, what he proposes to charge for a license for using his patented process. The following is an analysis of the water by Mr. R. Phillips:—One pint of this water contains—silica, ½th gr.; carbonate of Imagnesia, ½ gr.; common salt, 2 this gr.; sulphate of lime, 1 ½th gr.; sulphate of magnesia, 1 ½ths gr.; sulphate of soda, 3 thus gr.; loss, and a trace of vegetable matter, ½ gr. It will be seen from this, and what is singular for London clay water, that there is not a trace of iron in the analysis.—C. & B. S.: Oldford, July 11.

COMPRESSED-AIR LOCOMOTIVE FOR RAILWAYS.

COMPRESSED-AIR LOCOMOTIVE FOR RAILWAYS.

SIR,—A notice having appeared in the Mining Journal, relative to Fell's Motive Power Company, of Corshill, will you oblige me by inserting the following remarks. Though the writer gives a tolerable true description of the mechanical arrangements, still he overlooks, or at least does not name, the principal merits. Vacuum attempts must, I believe (as the patentees assert), in all cases prove a failure where any amount of power is necessary; whilst by this principle the power can be increased according to circumstances to any required amount, and is equalised throughout the entire length of the line—indeed, it is a succession of impulses of equal strength—every 22 ft. the locomotive-engine or truck has the perfect action of the steam locomotive, can be instantly stopped, backed, run into a siding, &c.; whilst in going down inclines, or stopping at stations, there is no waste of power (as by blowing off steam, or loss of vacuum), and during these periods the large station engine is still at work, increasing the power at all points of the line. This brings me to that part of the objection, which not only denies the possibility of one powerful steam-engine supplying 100 miles with the requisite motive power, but, in consequence of the assertion, is inclined to question every part of the arrangement—aye, even the practical permantic knowlege of the patentees! It would have been more modest and less invidious, if the writer had said what is really true—that pneumatic knowlege of the patentees! It would have been more modest and less invidious, if the writer had said what is really true—that pneumatic knowlegg of the patentees! It would have demonstrated the matter practically, as proposed by their prospectus.

The great advantage to be derived by the railway companies will be a saving of 50 per cent. in wear and tear of permanent way and rails, whilst to the shareholders in Fell's Motive Power Company will accrue the immense profit of finding motive-power, and the power laid do

BAILWAYS OVER MOUNTAINS.

Srn,—In your Journal of the 30th June, there is a communication from Mr. T. Deakin on this subject, in which he says "an ingenious arrangement is about being carried out in this neighbourhood (Blaenavon), which, if successful, will probably be followed in districts where a scarty popument is about being carried out in this neighbourhood (Blaenavon), which, if successful, will probably be followed in districts where a scanty population would not justify the costly expenditure in the formation of an ordinary railway. An engine is to be placed on the summit level of a road, cut over the mountain, between Blaenavon and Abergavenny, to draw up loaded carriages, &c., which will be allowed to descend on the other side by their own gravity, guided by the engine, which mode is expected quite to supersade the oid road cut through the mountain." Unfortunately, Mr. Deakin's explanation of this scheme is so brief, as to give but a very imperfect notion of the mode by which this ingenious arrangement is to be effected; nor are the terms he uses sufficiently clear to enable your readers to comprehend his meaning. His letter is headed "Railways over Mountains," and then he says the engine is to be placed on the summit level of a road out over the mountain, which is to supersede an old road cut through the mountain. Whether he intends to form a road or a railway, it is impossible to determine. Be it the one or the other, it is not difficult to show that any such scheme requires mature consideration, and that its expediency is very questionable. Although confessedly ingenious, there is no originality in the plan, as it has been pursued on railways in different parts of the country for about half a century. There is, therefore, no want of data derived from experience by which we can test the value of "the arrangement" proposed by Mr. Deakin; and from this source we have learnt that, even on railways, with a large and constant traffic, sta-

tionary engines are very expensive; and that where the tonnage is inconsiderable and uncertain, or varying in amount, they are very little cheaper than horse-power. The traffic anticipated to pass over this mountain, will be of the latter description; whilst the expenses will be constant. Wages, coal, oil, wear of ropes and machinery, depreciation and interest of money invested, will be nearly the same for 100 tons as for 5 tons per day, as the engine mist always be kept in a working state, whether there be much or little for it to do; and the ropes, or chains, rolleys, &c., are constantly depreciating, whether used or not. Supposing that a railway be adopted, the difficulty of reciprocating with common roads will make it almost impossible to convey even a very moderate amount of traffic in this way, without a very great loss of time and power. There are numerous practical obstacles, in short, to the success of such a scheme, even were a railway adopted; and these will be greatly increased if it be meant to employ the power of a stationary engine on a common road. Unless the "ingenious arrangement." alluded to by your correspondent be some new method of so applying steam-power, which is not stated, and of which we are ignorant, there is nothing in the plan proposed to justify a reasonable expectation of its success. On the contrary, so far as experience goes, we may safely anticipate that it will neither effect a saving of time and money in the conveyance of traffic, nor reimburse the parties who may invest their money in it. The sole merit of the project, therefore, rests on something unexplained; and of the feasibility of which we are in profound ignorance. The known ability of your correspondent, however, induces a confident hope that the difficulties to be enconnered will be amply provided for by the resources of his ingenuity; and it is to be regretted that the scheme as propounded should be so imperfectly explained as ato induce unfavourable opinions of its merits, which a full development might have modi

development might have modified, and possibly have altogether prevented.

Neath, July 6.

J. RICHARDSON, C.E.

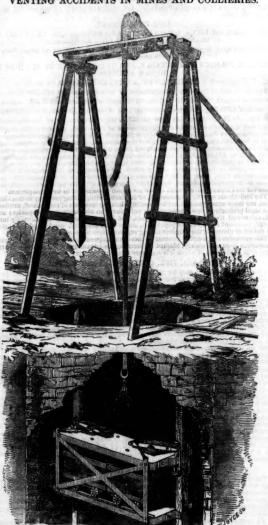
RAILWAYS OVER MOUNTAINS.

RAILWAYS OVER MOUNTAINS.

SIR,—Mr. Deakin, in a letter dated the 25th June, states that "an engine is about to be placed on the summit level of a road ent over the mountain between Blaenavon and Abergavenny, to draw up loaded carriages waggons, &c., which will be allowed to descend on the other side by their own gravity, guided by the engine, which mode is expected quite to supersede the old road cut through the mountain. If this plan is found successful, and here the opinion is, that it will, &c." For the information of Mr. Deakin, and all whom it may concern, I beg to inform them, through the medium of your Journal, I adopted the same principle, with every satisfaction, more than 30 years ago, and it has been in use on a large scale for some years past, with equal success, at the Bowling Iron-Works and Coal Mines, near Bradford, in this county.

Bamborough Hall, Rotherham, July 12.

FOURDRINIER'S PATENT SAFETY APPARATUS, FOR PRE-VENTING ACCIDENTS IN MINES AND COLLIERIES.



By the adoption of this invention the lives of the working miners may be preserved, and the property of the mine owners protected from the se-

be preserved, and the property of the mine owners protected from the serious consequences of the following accidents:—

1. From the men or load being precipitated to the bottom of the shaft when the rope or chain breaks; in this case the apparatus is self-acting.

2. From either the men or load being drawn over the pulley; in this case also the apparatus is self-acting.

The apparatus is readily applied to the present guides now in use, whether they be of wood, iron rods, or chain, and may be attached to the cage in a few hours.

By reference to the annexed sketch it will be seen that the apparatus is fastened upon the guides by the rope being represented as broken, but when the rope, or chain, is tight, and the cage in work, the levers are raised on their fulcra, and lower the wedges in the tapered shoes, which slackens them on the guides; and when the rope, or chain, becomes broken or deon their fulcra, and lower the wedges in the tapered shoes, which slackens them on the guides; and when the rope, or chain, becomes broken or detached, the levers drop and raise the wedges into the tapered shoes, and consequently grip the guides firmly on both sides, so that the greater the weight in the cage the tighter the wedges hold.

To obtain any further information, application may be made to Mr. Joseph Fourdrinier, 9, College-place, Camden Town, London, who is authorised by the patentee, Mr. E. N. Fourdrinier, to grant licenses for the res of the patent.

the use of the par

On an Equation between the Temperature and the Maximum Elasticity of Steam and other Vapours. By W. J. M. RANKINE, C.E. Edinburgh: Neill & Co and other Vapours. By W. J. M. RANKINE, C.E. Edinburgh: Ñeill & Co. In the present ago of research after the most economical means of obtaining motive power, every species of investigation and experiment is worthy the consideration of the scientific world. The little brockers before us is the reprint of a paper from the Edicburgh New Philosophical Journal for July, by Mr. Rankine, the engineer, in which the author has given the results of his investigations, founded on a peculiar hypothesis respecting the molecular constitution of matter; an equation giving a very close approximation to the maximum clasticity of vapour in contact with its liquid at all temperatures which usually occur. Formulæ are given, calculated from the experiments of Regnanti and Dr. Dre; the latter of which, for turpentine agd petroleum, he shaes are so irregular, that the value of a constant element cannot be determined with precision. By his own researches he has arvived at formulæ easy and expeditions in calculation, giving accounts numerical results, and which he considers will be practically useful. The calculations are for steam, vapours of alcohol, ether, turpentine, petroleum, and mercury. GAS-LIGHTING: ITS PROGRESS AND PROSPECTS.*

GAS-LIGHTING: ITS PROGRESS AND PROSPECTS.*

The question of the manufacture and supply of gas to the public having of inte caused considerable excitement among consumers, both on a large-and small scale, we are happy to find that a work on the subject has just been published by Mr. J. W. Parker, West Strand, tending to give correct information on all its details, and set at rest those conflicting statements with which the press has been deluged for many months past. Those who wish to become acquainted with the mysteries of gas production, and the several details coanected with its cost, its profits to shareholders, its various elements of loss, and the several kinds of information necessary for successfully conducting a gas establishment, should consult Mr. Ratter's work, which is evidently the production, not only of an engineer who has made the manufacture of gas his peculiar study, but of one who has not been content with skimming the surface of the science, but has dived into its most hidden recesses, and separated and arranged successfully its various elements, by which a host of fallacies which have of late found place in the public journals will be exploded, and more correct and general information on the subject be disseminated. To allow our readers to form a judgment as to the correctness of these introductory remarks, rather than carry our own observations to an unnecessary extent, we shall lay before them a few extracts, which, while they give an idea of the utility of, and correct information conveyed by, the contents, will be convincing of the capability of the author for the discussion of this particular subject. After a history of the introduction of gas by Murdoch, in Cornwall, as a toy, 60 years suce, its gradual development, the mistakes made, the vast sums of money wasted, and years of energy, skill, and toil passed unrewarded, and concluding that the science has not even now attained to the degree of perfection of which it is susceptible, he gives some excellent advice and naformation on the The question of the manufacture and supply of gas to the public having of

company, the nucler makers, gas filters, and others. On the present prospects of gas-lighting, he says;—

"The prospects of gas-lighting are brightening. 'A good time is coming.' Never mind discussions and inquiries. They will do no harm. They may occasion a little temporary excitement, but in the end much good will be guient by all that is now going on. Where there is nothing wrong, and nothing to conceal, there is nothing to dread from exposure. An affectation of mystery is sure to excite suspicion. It had been better if there had been less of this in former days. If gas companies make a good use of their present opportunities, they will acquire a popularity and a stability which they have neere before enjoyed. There is no class of capitalists more liable to have their fears wrought upon than gas proprietors. This is chiefly to be attributed to the small amount of information which they possess as to the nature and the extent of the business in which their property is embarked. It is not to be expected, neither is it necessary, that they should un serstand the details of the manufacturing and distributing processes. Such matters are better left to the care and management of those to whom they properly belong. Gas proprietors should cultivate a good understanding among themselves. They should possess authentic intelligence about inventions or ecentrences which are likely to affect their interests. They should know more, than appears to be generally known by them, about the number of gas establishments, the magnitude of frieir operations, the amount of capital invested in them, and the rates of interest paid thereou. This kind of information would naturally lead to imquiries as to the prices of gas in various parts of the kingdom, the reasons for its being greater in some localities than in others, and in small towns than in large ones. The possessors of this kind of knowledge would have more correct view of the value of their reasons of this kind of knowledge, would have more correct view of the value of their

The following statistics are interesting:-

a more liberal system,—whose chief clement is truth, and whose sole object is good will?"

The following statistics are interesting:—

"The number of proprietary gas-works in England and Wales is—say 560, and in Scotland and Ireland, 170. There are about 45 others, of which 33 are believed to belong to private individuals, and the remainder to parcellal or municipal bodies. These make a total, for the United Kingdom, of 775 distinct establishments for the manufacture and sale of gas, and which are considered to represent a capital of 10,500,000. The dividends may be quoted at all rates—from none at all, to 10 per cent.; the average being a little over 5 per cent. The quantity of gas produced annually—say in 1848, may be taken as equal to about 9,000,000,000 tons. After allowing for waste and leakage, the quantity of gas actually sold is about 7,2 9,000,000 (seven thousand two hundred millions) of cubic feet. These quantities, and the terms in which they are expressed, are but imperfectly understood by persons not practically acquainted with the subject. It may help a little to illustrate the matter, by mentioning that a gas-holder capable of containing the quantity fragrated would require to be two miles in diameter, and 103 feet in height. The light produced by the last quoted quantity of gas, being that sold, is equal to 342,857,143 (times hundred and forty-two_millions, eight hundred and fifty-seven thousand, one hundred and forty-two pounds, or 163,061 tons of mould candles of six to the pound, and which, at 8d. per lb., would cost 11,428,571/. Compared with sperm oil, the quantity of that article required to yield the same light, would be 33,133,546 gaillots; costing, at 8s. per gallom, 13,253,456/f. The average price realized by the gas companies, for all the gas sold, including that supplied to street-lamps, is, 1 believe, less than 4s. 6d. per thousand cubisfect. Taking it at that price, the sum charged for the same would be 1,230,000/. "The number of men occupied in the manufacture of gas averages abou

engaged in mines and iron-works, and in numberiess processes which have had their origin, and are kept in motion, by this branch of domestic manufacture."

Repeating the numerous improvements suggested by theoretical writers, which may be accomplished in the manufacture and supply of this now necessary article of commerce, he clearly shows that while many things are highly desirable which are impracticable, so it is a common mistake with theorists or amateurs to confound possibilities of philosophy with the possibilities of commerce, and that many of the proposals for gas improvements are of this nature. For the encouragement of parties pecuniarily connected with gas companies, we give one concluding extract:—

"The science of gas-lighting is not what it should be, nor what it is destined to become. Early indiscretions are not soon forgotten, nor are their effects easily shaken off. Selfabness on the one hand, and speculation on the other, have been heavy clogs. With the best of intentions, and the brightest of prospects, when the ground is untried, the ablest of men are generally the most cautions. A cautions course may, for a time, be the safest; but caution and timidity must not be confounded. Amidst the changes which are in progress, and the new light which is breaking in upon trade and manufactures, something must be ventured, or nothing great will be achieved. There must be confidence as well as hope—effort as well as expectation. In gas-lighting, low prices, within sufe commercial limits, are the secret of success. Of this, the examples are so numerous, and the illustrations so decisive, that they all point in the same direction. There is no longer either cocasion, or excess, for doubts, and fears, and forebodings. Those who were most frightened, acknowledge that they have been more frightened than hurt; and others, who were very lately brooding over anticipated losses, have began already to reckon the rost frightened, acknowledge that they have been more frightened than hurt; and others, who were very l

very lately brooding over anticipated losses, have began already to reckon their gains." The volume concludes with a note on the electric light, in which he shows that although some improvements have been made towards adopting it commercially, its progress is very slow; and that as respects usefulness, nothing definitive seems yet to be accomplished. That although a light of dazzling brilliancy can be obtained for a few moments, its intermittancy and uncertainty are fatal to its use, and that at present there appears no signs of success in securing the necessary self-adjustment of the carbon points, which must be accomplished before it can be adopted as a means of artificial illumination.

**Gas_labiling.its Progress and its Progress, with Remarks on the Partner of the Partne

* Gas-Lighting: its Progress and its Prospects; with Remarks on the Rating of Gas-Mains, and a Note on the Electric-Light. By J. O. N. RUTTER, F.R.A.S. London: John W. Parkor, West Strand.

The New Hydro Carbon Gas.—An apparatus for the manufacture of this new gas has been fitted up at Parkhouse, and we have been favoured with the following description of it by Dr. Kinloch. It seems well worthy of public attention. After giving an account of the mode of manufacture, he proceeds to speak of its merits in the following terms:—"The advantages it possesses over coal gas are,—1st, its cheapness, as it seems pretty evident that, should resin continue at its present price, it may be manufactured at a prime cost of about 1s. 3d. per thousand cubic feet, on a large scale; it is, of course, more costly—say 2s. per thousand cubic feet, on a large scale; it is, of course, more costly—say 2s. per thousand cubic feet, on a large scale; it is, of course, more costly—say 2s. per thousand cubic feet, on a large scale; it is, of course, more costly—say 2s. per thousand cubic feet, on a large scale; it is, of course, more costly—say 2s. per thousand cubic feet, on a large scale; it is, of course, more costly—say 2s. per thousand cubic feet, on a large scale; it is, of course, more costly—say 2s. per thousand cubic feet, on a large scale; it is, of course, more costly—say 2s. per thousand cubic feet, on a large scale; it is, of course, more costly—say 2s. per thousand cubic feet, on a large scale; it is, of course, more costly—say 2s. per thousand cubic feet, on a large scale; it is, of course, more costly—say 2s. per thousand cubic feet of course, more costly—say 2s. per thousand cubic feet of course, more costly—say 2s. per thousand cubic feet of course, more costly—cont. Say 2s. per thousand cubic feet of course, the furnace fire, the requisite temperature not being so great as that required for the decomposition of coal.—3d. No purifying apparatus is illuminating power is about 20 per cont. superior of coal.—3d. No purifying apparatus is illuminating power is about 20 per cont. superior of coal.—3d. No purifying apparatus in the feet of gas per hour, will not occupy more space than four feet square. The gas made

RIDER'S RAILWAY BRIDGE.

on the following terms:—
A BRIDGE, of 180 span, for a double track railway, broad gauge—Price £2000.
A BRIDGE, of 100 feet span, same dimensions—Price £1000.
These prices are exclusive of abunements or piers.
ROADWAY BRIDGES at a reduction on cost of from one-half to two-thirds.
Apply to Mr. S. MOULTON, Patentee, Bradford, Witts, or to Mr. Howard Jacobson, Suffolk-lane, Thames-street, London.

NDURATED AND IMPERVIOUS STONE, CHALK, &c. AGENTS, with capital, are WANTED in all TOWNS to SUPPLY (under British reign Patents) the great demand for HUTCHISONISED MATERIALS—hard as a impercious to moisture, vermin, &c.; the cheapest and most durable for all gs, hydraulic, paving, monumental and decorative work.—The profits are large.

East Temple Chambers, London, or Tunbridge Wells, Kent, stating name, address, the capital at command.

N.B.—Houses cured of damp. The produce of soft stone quarries, chalk, plaster of Paris, wood, pasteboard, and all absorbent materials indurated to resist frost, vermin, &c.

VERLAND, COODS.

VERLAND GOODS AND PARCELS FOR INDIA.-

To Aden, Ceylon, Madras, Calcutta, Singapore, China, and Bombay, should be dered not later than noon, on the 17th of each month; and, if forwarded on the 18th, be subject to an extra classroe.

Then the 18th falls on a Sunday, no packages will be received after the 17th; and cases to exceed 70 lbs. in weight, and, when measuring over t cubic foot, they must be ag, and well hooped at the ends.

and well hooped at the ends.

25 Leadenhall-street, London, July 12, 1849.

TEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS CEYLON, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG-KONG. THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY 4

BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS by their steamers—starting from Southampton on the 20th of every month; and from

BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS by their steamers—starting from Southampton on the 20th of every month; and from Saze on or about the 10th of the month.

BOMBAY.—Passengers for Bombay can proceed by this company's steamers of the 29th of the month, to Malta, thence to Alexandria by her Majesty's steamers, and from Suze by the Honourable East India Company's steamers.

MEDITERRANEAN.—MALTA—On the 20th and 29th of every month. CONSTANTI-MOPLE.—On the 29th of the month. ALEXANDRIA—On the 20th of the month. SPAIN AND PORTUGAL.—Vigo, Oporto, Libson, Cadiz, and Gibraltar, on the 7th 17th, and 27th of the month.

For plans of the vessels, rades of passage-money, and to secure passages and ship cargo, apply at the company's offices, No. 122, Leadenhall-street, London; and 57, High-street, Southampton.

DATENT TOUGHENED CAST-IRON.—Messrs. GARDEN and MACANDREW beg to call the attention of Architects, Builders, Engineers, confounders, &c., to the ABOVE DESCRIPTION OF IRON (Mr. Morries Surings's Paul), which, after numerous frials, experimental and practical, is found greatly to exceed all other cast-iron in tensile and transverse strength, as well as in resistance to reashing forces. Several of the most extensive ironnasters have been licensed, and from hem, or their brokers, the patent iron can be procured.

Measra. GARDEN & MACANDREW have always a STOCK of this IRON in PIGS, and re ready to EXECUTE ORDERS to ANY EXTENT, on the shortest notice.

27, Queen-street, Cheapside, April 25, 1849.

CWMBRAIN PATENT IRON REFINERY.-The PROPRIETORS of IRON FORGES and MILLS are respectfully INVITED MAKE TRIAL of Mr. BLEWITT'S REFINED IRON, or METAL, PREPARED by

NEW PATENT PROCESS,
whereby the IRON is completely FREED from the IMPURITIES CONTRACTED in the
BLAST-FURNACE, and, by Judicious mixtures, rendered applicable to every kind of
manufacture. Heretofore, the metal usually sold in the market has been produced from
he worst pigs, scraps, and refuse of some particular blast-furnace, or set of furnaces,
without any mixture, or any regard to quality, or the purpose for which it might be required. The PATENT METAL is PREPARED ON SYSTEM, and TO ORDER, for
any of the following purposes:—
1. For BOILER and TANK IN TANK IN

red. The PATENT BETAL is PIEPARED ON SYSTEM, and TO ORDER, for of the following purposes:—
For BOILER and TANK-PLATES.
For STRONG CABLE BOLTS, RIVET, and ANGLE IRON.
For STRONG CABLE BOLTS, RIVET, and ANGLE IRON.
This COMPOUND PUDDLED, beat under the hammer into a bloom, relicated, and sid into a 6 or 6j-inch bar, makes TOPS and BOTTOMS for FLANCH and OTHER LES, of very superior quality, and attended with less waste than any other kind of used for that purpose. It is also well adapted for nail-rods, horse-shoes, and for ordinary uses of the blacksmith.
The PATENT METAL is marked with a squirrel, and the initials "R. J. B.," is to be had only at the "Cumbrain Iron-Works," near Newport, Monmouthshire

DATENT IMPROVEMENTS IN CHRONOMETERS. WATCHES AND CLOCKS.—E. J. DENT, 82, Strand, and 33, Cockspnr-street, watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness Prince Albert, begs to acquaint the public, that the manufacture of ins chronometers, watches, and clocks, is secured by three separate patents, respectively granted in 1866 1846, 1842. Silver-lever watches, jewelled in four holes, 6 gs. each; in gold cases, om £5 to £10 extra. Gold horizontal watches, with gold dials, from 8 gs. to 12 gs. each, or Moridian Instrument, is now ready for delivery.—Pamphilets containing a description and directions for its use 1s. each, but to customers gratis.

IMPORTANT TO MINE OWNERS, &c.

JUTTA PERCHA COMPANY—PATENTEES,
CITY-ROAD, LONDON.

The GUTTA PERCHA COMPANY beg to bring under the notice of Mine Owners,
Manufacturers, &c., the GREAT SAVING, both of time and expense, which is effected
by the use of the GUTTA PERCHA PUMP BUCKETS and VALVES. These Buckets
may be had of any size or thickness, without any seam or vates joint. They are unaffected
by acids, alknites, &c. Cold water will never soften them, and they are, consequently,
much more durable than leather, and also cheaper. The most grutifying testimonials
have been received from millowners, who have had these Buckets in operation for seyeral months past, without the slightest repairs being required.

Being so remarkable a CONDUCTOR of SOUND, is now being extensively applied for CONVEYING MESSAGES from One BUILDING, or PLACE, to ANOTHER. If a Tubing of this material, I inch diameter, be carried from the mouth of a mine, or pit, down the shaft, to various parts of the mine (no matter whether a quarter or half a mile distant), an instant communication may be established by means of the whistle, on Whishaw's principle, and a conversation carried on as distinctly as though the parties were but a few foot from each other. When these Tubes are in general use, they will greatly leasen the loss of life in winter.

leasen the loss of life in mines.

Continue to secure a continually increasing demand: they can be had of any size or length. Their durability and strength, permanent contractility and uniformity of substance, their non-susceptibility of injury from contact with oils, grease, acids, alkalies, or water, and the facility with which the only joint required can be made in bands of from 200 to 300 feet long, render them superior for almost all working purposes, and decidedly economical.

economical.

GUTTA PERCHA Soles for Boots and Shoes, Bowls, Buckets, Picture Frames, Brackets,
Mouldings, Surgical Instruments, Vases, Cups, Inkstands, Balls, &c., may be had at the
Company's Works, Wharf-road, City-road, London, or of any of their wholesale dealers
in town or country.

HOUSE PAINTING WITHOUT SMELL,-Use the SWEET OIL OF TURPENTINE, as certified by Dr. Serny. It goes further, ries quicker, lasts longer, adds to the brilliancy of colours, and prevents the many ill frects too often consequent in the use of the old turpentine. Sold in bottles from 6d. to s.; per gallon, 6a.—Bottles, packages, and booking, on one or two gallons, charged s. 6d, per gallon : on three or more gallons, 1s. per gallon extra.

Post-office orders to be made payable to
Sweet Oil of Turpentine Company's Deptic, Bream's-buildings, Chancery-lane.

COAL MARKET, LONDON.

**MONDAY.—Buddles* West Hartley 13 6—Carr* Hartley 13 9—Chester Main 14 3—
Bastings Hartley 13 6—New Tanfield 12 6—Ord's Redhugh 13—Tanfield Moor 13—TanBald Moor Buttes 12 6—New Tanfield 12 6—Ord's Redhugh 13—Tanfield Moor 13—Tan**Bald Moor Buttes 12 6—Townley 13 6—Walkler* Primroos 12 9—West Hartley 14 6—
**Windsor's Pontop 12 6—Wylam 13 9—Wall's End Gosforth 15 9—Ghoon 15 3—Percy
J5—Eden Main 16—Lambton Primroos 16—Edil 16—Belmon 16—G—Hetton 17 6—Haswell 17 6—Lambton 17—Lambton 17—Lambton 17 6—Has**New 15 6—Shortley 13 6—West Cornforth 15 6—Cownen Hartley 13 9—Derwentwater
**Hartley 13 6—Ships at market, 72; solid, 43.

WEDNESDAY.—Buddle's West Hartley 13 6—Carr's Hariley 13 9—East Adair's Main 12 6—Hasting's Hartley 13 6—Now Tankeld 12 6—Ravensworth West Hartley 12 6—Tambeld Moor 13 6—Walker's Primores 12 6—Eavensworth State 16 16—Stevary's 17 6—South Hartlepool 15 9—Thornley 16—Whitworth 13 9—Cowndon Tees 15 6—Cowpen Hartley 13 9—Sthey's Hartley 13 6—Ships at market, 94; sold, 30.

-Cospen Hartley 13 9—Skilney's Hartley 13 6.—Ships at market, 94; sold, 30.

SA'TURDAY.—Buddle's West Hartley 13 9—Carr's Hartley 13 9—Adahr's Main 12 6.

—Hasting's Hartley 13 9—Holywell Main 14 6—New Tambeld 12 6—Ord's Redheugh 12 6—Eavensworth's West Hartley, 13—Tanfield Moor 12 6—Townley 13 6—Walker's Primrose 12 6—West Hartley 14 6—Wylam 13 9—Wall's End Hediey 15 6—Urpeth 13 —Wharneliffe 15 3—Edem Main 15 9—Belmont 16—Braddyll 16 6—Haswell 17 6—Lamley 15—Morrison 15 3—Stewart's 17 -Whitwell 13 3—Caradec 15 9—Hartlepool 17 6—Hengh Hall 16 9—Kellon 16 3—South Hartlepool 15 9—Thornley 15 9—Whitworth 13 9—Adelade Tess 16—Cowndom Tees 15 6—Deniwon 15—Tees 17 3—West Cornforth 15 6—Deniwon 15—Tees 17 3—Tees 15—Tees 15—Tee

		Contract of the Contract of th	THE R. P. LEWIS CO., LANSING, MICH. 49, 120, 120, 120, 120, 120, 120, 120, 120		
				IN THE MONTH	
Newcastle		********	santa		. Tona 114,675
Sunderland		********	**********		74,713
Stockton, Middle	sbrough, &	C			51,627
Blyth					
Scotch					
Welsh					
Yorkshire, &c					
Small Coul					
Cinders	********				1,073
BEST RESERVED	25 400 4 1	COST A			
Market Bull to the State of	Total				Tons 265,684

THAMES TUNNEL COMPANY The number of passengers who passed through the Tunnel in the week ending July 7 was—Ho. of passengers, 14,976. -Amount of money, £62 8s. 6d.

SEA, FIRE, LIFE ASSURANCE SOCIETY

PORT OF LONDON ASSURANCE COMPANY, Incorporated pursuant to Act of Parliament, April 22, 1847.
ed to Lloyd's by Vota of the Committee, January 15, 1848.—Amalgar
to Resolutions, dated February 5, 1849.

to Resolutions, dated February 5, 1849.

INCORPORATED BY ACT OF PARDIAMENT,
Capital £100,000.

OFFICES, 31, CORNHILL, LONDON (opposite the south side of the Royal Exchange)
UNITED BOARD OF MANAGEMENT.
TRUSTEES AND DIRECTORS.

JOHN BENNETT, Esq. TRUSTEES AND DIRECTORS.
THOMAS BUXTING, Esq. GEOHOE HELMORE, Esq. Sir WILLIAM A. OGILVIE, Bart. FREDERICK A. PEEL, Esq. JOHN KELLAND DURANT, Esq. W. YATES PEEL, Esq. With power to add to their number.

52

Auditors-Mr. WI Mr. Henr

Managing Director—Augustas Collingridge, Esq. Underwriter—John Powis, Esq., Member of Lloyd's. Underwriter—John Powis, Esq., Member of Lloyd's. Ulliam Paul Metchin, 20, Parliament-street, Westmin Hawk, Ely, Cambridgeshire.

Bankers—Messrs. Currie and Co., 29, Cornhill.

chiciclor—John Chapple, Esq., No. 70 a, Aldermanburg. Medical Referer—Augustus Cooper, Esq., M.R.C. S. Actuary, Life Department—Mr. Alfred Burt.

Superimentent, Fire Department—Mr. John Nolson.

Surveyor of Buildings—Jeckson Barwise, Esq.

Surreyor of Buildings—Juckson Barwise, Esq.

The capital of this company, in lieu of being fixed at some purely nominal amount, having no reference, and bearing no relation to the proportion paid up, consists (with powers of extension reserved to the properteors, under the 16th clause of the Deed of Settlement, at a general meeting) of £100,000, divided into Ope Pound Shares, all paid, transferrable at the pleasure of the holder, and bearing a guaranteed interest of Five per Cent. per Annum, receivable half-yearly, irrespective of further dividends according from the sources of profit opened by the proprietary branches of the business. By this arrangement, while the shareholder is exempted from liability to indefinite contributions at uncertain intervals, the assured is secured the corresponding benefit of ascertained available funds, in no way contingent on the necessarily doubtful nature of "calls," which experience has always shown, are least likely to be responded to when most required.

FIRE DEPARTMENT.

The Rates on Fire Risks have been based on statistical calculations, prepared with the greatest skill and accuracy, which warrant the directors in making such alterations with respect to houses brought within scope of the enactments of the Building Act (7 and 8 Vic., cap. 84), for which no office hitherto in extatence has made the slightest abatement in return for the diministration of bazard, as afford perfect security to the public, at a considerable reduction in point of cost to the assured.

CLASS I.—ANNUAL PREMIUM OF (not exceeding) ONE SHILLING PER CENT. All buildings erected in conformity with the Building Act, 7 and 8 Vic., cap. 84.

CLASS II.—ANNUAL PREMIUM OF (not exceeding) ONE SHILLING AND THREE PENCE PER CENT. All household goods, merchandise, and stock, not hazardous, in brick, or storgs, as described in Class I., and in which no hazardous trades are carried on, or

CLASS III.—ANNUAL PREMIUM OF (not exceeding) TWO SHILLINGS PER CENT Buildings of brick and stone, covered with slate, tiles, or metal, wherein no hazardous trades are carried on, nor hazardous goods deposited, not being built in conformity with the Building Act, 7 and 8 Vic., cap. 34, but otherwise approved upon survey.

EXTRA HAZARDS altogether excluded, and returns of profits to the assured made very fifth year.

LIFE DEPARTMENT. ASSURANCE ON LIVES, ENDOWMENTS, AND REVERSIONS, AND PUBLIC GUARANTEE, UNITED WITH LIFE ASSURANCE,

Established upon the principle of Mutual Life Assurance, the whole of the profile being divisible amongst the assured.

ALL LIFE POLICIES INDISPUTABLE, AND GRANTED FREE OF STAMP DUTY TO THE ASSURED.

ALL LIFE POLICIES INDISPUTABLE, AND GRANTED FREE OF STAMP DUTY TO THE ASSURED.

THE ASSURED PROTECTED BY A GUARANTEE FUND OF £100,000.

The life branch of this society is established by persons connected with that large and influential body of individuals—the mining interests of England and Wales—a class of upwards of 2,000,000, and whose annual returns of capital approximate to £40,000,000 sterling. As life assurance has been extended, the various classes of the community have embraced the advantages of establishments of their own, adapted to the peculiar circumstances of those portions of society with which they are respectively connected. It is, however, remarkable that, while in the metropolis alone the life assurance companies of all classes and descriptions exceed 100 in number, with engagements computed at upwards of £115,000,000 sterling, those companies of not comprise one emanating from the mining classes, or embracing those interests which have done more than any other to develope the resources, and promote the extension, of the commerce of the country. So long, then, as this important and influential class of the community possesses no assurance association, immediately identified with its peculiar interests, it is manifest that an extensive system of life assurance remains yet to be accomplished.

The individuals directly interested in, or connected with, mining property in this kingdom, are mere numerous and not less wealthy than the members of the clerical, medical, and legal professions, now represented by not fewer than nine assurance companies; and it is calculated that the proprietors, agents, and those immediately or indirectly interested, represent an amount of population, and of Rod propriety, nearly equal to has of all the other classes of the kingdom having representative assurance is otherwise. This extensive and wealthy than its, therefore, unquestionably adequate to sustain a prosperous assurance society, adapted for securing the advantages of life assurance to the numerous individual

prosperous assurance society, adapted for securing the advantages of life assurance to the numerous individuals of which it is composed; and for this purpose the life branch of "THE SEA, FIRE, LIFE ASSURANCE SOCIETY"

has been established, not only for the immediate benefit of these interests, but for those of all other classes, whether in the medical, legal, or clerical professions, the army, navy, or any other station of life, on equal terms, and will afford the utmost advantage that can be derived from life assurance.

Mutual assurance is the best mode by which this object can be attained; it is distinguished from the proprietary principle in distributing the surplus profit rateably and equally among the assured only; whilst in proprietary companies the shareholders are a permanent body, among whom a considerable portion of the profit is divided.

The experience of nearly a century has demonstrated that mutual societies are not only perfectly safe, but, when prudently managed, yield large profits to policy holders, without the aid of a permanent subscribed capital.

Mr. de Morgan, one of the most competent authorities on life assurance, says:—"A mutual society is one in which the members stand equally related to each other, and constitute the company themselves. In such a company no capital is, generally speaking, raised at the outset, except, perhaps, a small sum for necessary expenses at starting." And again: "They have no capital except what arises from their own accumulations, and each member is a guarantee to the rest for the fulliment of all engagements. The risk, however, even at the commencement, is not great in character, and is small in amount; and the quantity of risk diminishes so much faster than the amount increases, that it may be astely said there is nothing in the commercial world approaching, even remotely, to the security of a vell established and prudently managed mutual sesurance society". As, however, there may be a portion of the public not yet fully convinced of a purely mutual with t

ALL LIFE POLICIES INDISPUTABLE.

ALL LIFE POLICIES INDISPUTABLE.

The chief obstacle to the progress of life assurance is, that an error in a policy, which may have arisen from mistake, misapprelension, or unintentional neglect on the part of the assured, or of the office, has the effect of vitiating the policy.

One of the most important objects of this society is the removal of the risks which have hitherto attended the rights of policy holders by insuring the certain payment of every life policy as it becomes a claim.

All questions as to age, health, habits, employment, residence, health of relatives, and other matters deserving of inquiry prior to the contract being granted, are held as finally settled when the assured received his policy.

Every policy issued by the life department of this society will be absolutely indisputable; and the fact of issuing the same shall be conclusive evidence of the validity of the policy, and the amount assured will be paid within three calendar months after proof of the death of the assured; and a clause has been inserted in the policy deed prohibiting the society from disputing any life policy which shall have been granted—a condition which renders the policies of this society more than ordinarily valuable as family provisions, or as negotiable instruments of security in pecuniary or loan transactions.

THE CONSTITUTION OF THE SOCIETY.

The society is established by Act of Parliament.
The funds of the society are vested in trustees.
The finds of the society are managed by a board of directors elected by the shareholders.
The accounts of the society are andited annually, by not less than two auditors.
A general meeting of the members will be held annually, to receive the report on the affairs of the society.
The assured are protected by an ample raid up capital.

The whole of the profits are divided amongst the assured.

At the end of December, 1853, being five years—and afterwards annually—the assets of the life assurance department will be computed, the profits ascertained and apportioned, and a snifficient sum reserved to meet all the contingencies of succeeding years; the whole of the profits will be divided rateably among the members assured for the whole term of life, after payment of the second premium, which will entitle them to participate in proportion to the amount and number of the oremiums paid, and such sum either to be added to the policy, or be applied in reduction of the premium, or the value paid to the assured.

THE BUSINESS OF THE LIFE DEPARTMENT.

added to the policy, or be applied in reduction of the premium, or the value paid to the assured.

THE BUSINESS OF THE LIFE DEPARTMENT

Assurances on single lives, on joint lives, and on survivorships.

Lives not considered perfectly admissible on the ordinary terms assured at rates of remainms corresponding with the extra risk.

Assurances on the lives of persons about to proceed to foreign climates.

Assurances on the lives of persons about to proceed to foreign climates.

Annutites for lives and limited terms, immediate and on survivorship.

Deferred annutites to commence at specified ages.

Tables to secure a deferred annuity of £10 and upwards during life.

Endowments of every description to be granted.

Prexulums payable by annual, half-yearly, or quarterly payments; or by a single paynent; or by payments for a certain number of years, or by an increasing or decreasing calle of premiums.

cale of premiums.

One-half of the promiums may remain unpaid at alsopic interest for the first 7 years not may be then paid off, or remain a debt upon the policy, at the option of the assured. And all other sound and practicable provisions contingent on human life, and for

EXECUTE.—The assured will be allowed to reside in any part of Europe, in Austra-

a, New Zealand, Canada, Cape of Good Hope, Madeira, and in any part of the world ant more than 35 degrees from the Equator. Thole world policios are granted to persons assuring on the lives of others on payment

ula, New Zealand, Canada, Cape of Control of

INTEREST IS PARTIES.

IOSE the benefit of the policy, although his interest shall have terminated before the usars of the assured.

REMEWAL OF POLICIES.—If an assurer be unable to pay the premiums, he will be allowed, on giving due notice, to charge the amount thereof upon his policy, to the extent of its value, thereby preserving the assurance during a period of difficulty, and so preventing the sacrifice of the provision he had made for his family. This feature is peculiar to this office, and affords a most important advantage to policy holders, by thus avoiding the forfeiture of a valuable policy.

Death by duelling or suicide will not invalidate the policies of this society, unless they be the property of the deceased at the time of his death, in which case the society will repay to his representatives all the premiums which shall have been received.

ALL POLICIES INDISPUTABLE AND ISSUED FREE OF STAMP DUTY TO THE ASSURED.—This society, considering the charge for policy stamps as a tax upon predence, and a great impodiment to the full development of life assurance, have determined to relieve assurers at once of this burden, and charge it as a working expense upon the office.—Noadmission nor entrance fees are required, noris any charge made for the policy. Medical practitioners paid by the office for overy case referred to them for their professional opinion.

GUARANTEE DEPARTMENT.

Medical practitioners paid by the office for overy case referred to them for their professional opinion.

GUARANTEE DEPARTMENT.

This society embraces the business of public guarantee, united with assurance on life, for the fidelity of persons in situations of confidence and trust, and providing against losses arising through dishonesty or failure, to account in lieu of the uncertain protection afforded by the system of private guarantee.

The principle of public guarantees has proved, from experience, so successful in its application to the employers so guaranteed, and the employed so assured, that the Lord Commissioners of her Majesty's Treasury have, by a special minute, empowered the heads of the Government department to receive the guarantee of a public company for those appointed to offices of trust and responsibility under the Crown.

The directors, in order to provide against the numerous cases of hardship and constant uncertainty to which private bondsmen are exposed, have propared tables expressly for this company, to grant policies for fidelity of trust, combined with policies of assurance on life, deferred annutities, and endowments to persons of approved character, about to be appointed to, or holding situations in, Government offices, banks, mercantile houses, public institutions, railway, insurance companies, and all other situations, where security against fraud or failure to account is required.

The value of this union of the two principles, combined with life assurance, the surely policies hold out to him, who with moral integrity unites the possession of an eligible life the solid advantages of the per centage he is amoustly paring being no longar an unproductive, although an unavoidable tax upon his carnings, all benefit from which expires with the tenure of his present employment, and ceases with his life. But, on the contrary, the union of life assurance with guarantee secures to his family in the latter case, and to himself, on the cessation of occupation arising from any cause not produ

corrung to the extent of the risk.

Prospectuses, and every further information, may be obtained from the actuary, at the fiftee of the society, No. 31, Cornhill, London; or at the offices of the agents to the society,—Local agencies will be formed in Wales, Cornwall, and in the principal towns of the United Kingdom of being appointed agents, are requested to apply personally, or by titer, to the managing director,

AUG. COLLINGRIDGE.

EUROPEAN LIFE INSURANCE AND ANNUITY COMPANY,

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Empowered by special Act of Parliament, 7 and 8 Vic., Cap. XLVIII.

Every description of risk contingent upon life assured.

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omputed.

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A superior Black Ink, of the common character, but more fluid.

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